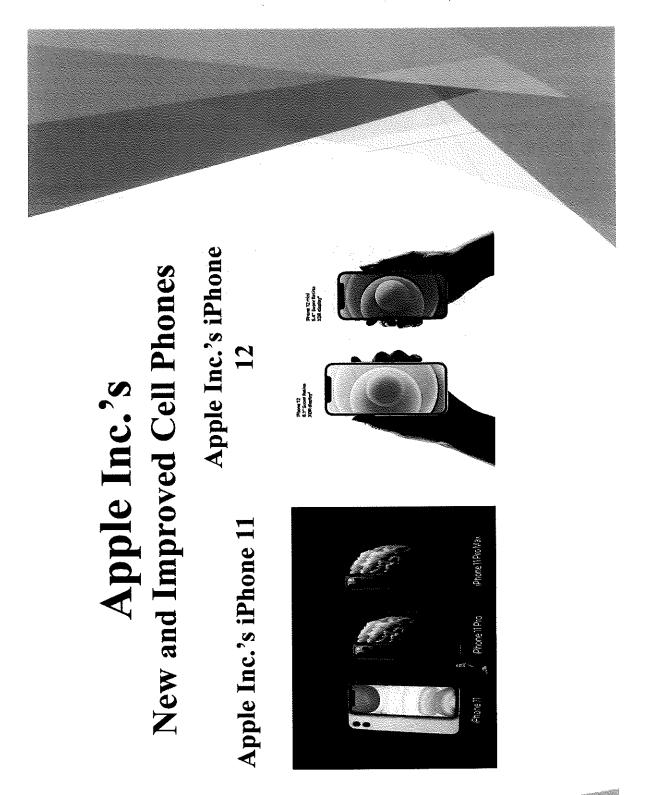
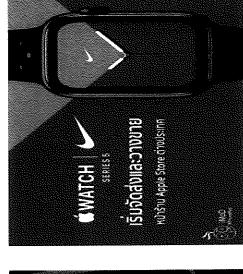
EXHIBIT F

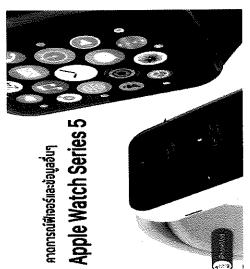
Illustrative Claim Chart of Apple's Alleged
Infringing Smartphones & Smartwatches

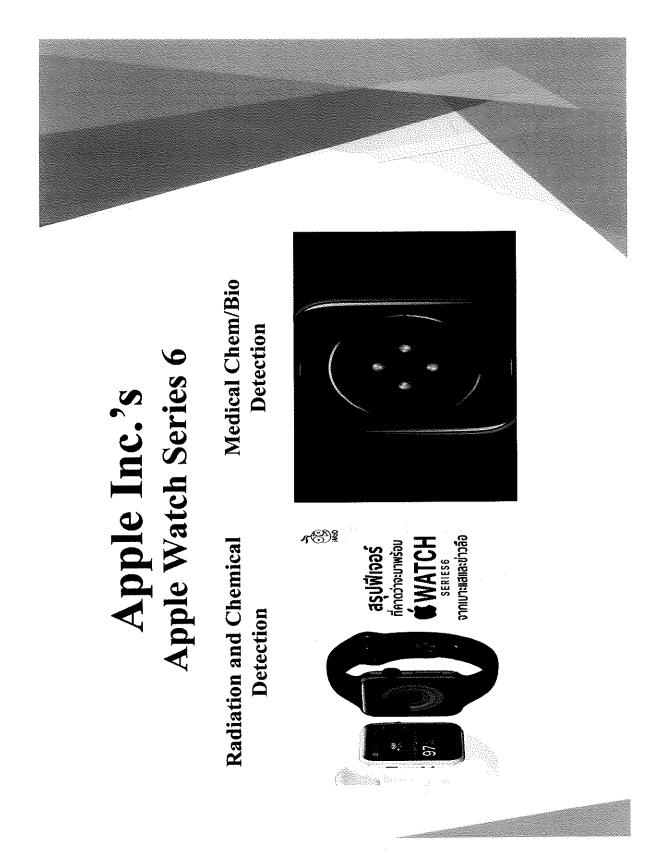


Medical Chem/Bio Detection

Radiation and Chemical Detection







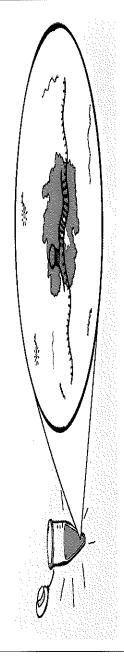
Patent #: 7,385,497; Independent Claim 1	Apple iPhone 11 & iPhone 12 Series and Apple Watch Series 5 & 6
	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation for Plaintiff's CMDC device(s).
	Apple iPhone 11 & iPhone 12 Series are believed to be communicating, monitoring, detecting, and controlling (CMDC) devices of at least one of the <i>new and improved</i> products grouped together by common features in the product groupings category of design similarity (i.e., computer terminal, personal computer (PC), laptop, desktop, notebook, handheld, cell phone, PDA or smart phone); that comprises, are interconnected to, or integrated with, at least a Central Processing Unit (CPU), that is vital for processing instructions; an Operating System (OS); mobile apps developed for the CMDC devices operating system (OS) such as Android, Apple® iOS®, BlackBerry®, or Windows® Mobile; wireless protocol of Cellular, Bluetooth, Wi-Fi, etc., and CBRNE-H sensors that are placed in, on, upon, or adjacent the <i>new and improved</i> CMDC devices; interconnected to the CMDC devices for communication therebetween.
A multi sensor detection and lock disabling system for monitoring products and for detecting chemical, biological, and radiological agents and compounds so that terrorist activity can be prevented, comprising:	constructions are reproduced "communication device" is construed to mean "monitoring equipment"; and, "built in, embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to, connected to, or mounted to another device, such that it is an integral part of the device". Patent Owner argues that "[t]he specific devices removed, such as the cell phones and smart phones would be recognized by one of ordinary skill in the art as a type of communication device or monitoring equipment because cell phones and smartphones are devices that are capable of communication and are capable of receiving signals." "As Patent Owner explains, the added language is broad enough to include the removed items, and is intended to reflect the entire genus of "monitoring equipment" and "communications devices" that "are capable of communication and capable of receiving signals." Mot. to Amend 4, 5. Thus, the claim has been broadened to not only include the listed species that have been removed, but anything falling within the claimed genus." UNITED STATES DEPARTMENT OF HOMELAND SECURITY, Petitioner, v. LARRY GOLDEN, Patent Owner. Case IPR2014-00714. Entered: October 1, 2015
	The Department of Homeland Security's Cell-All project. "Cell-All is a program managed by DHS to develop software and hardware that enables smartphones to function as handheld, pervasive environmental sensors. In the initial research and development phase, engineers miniaturized sensors to detect abnormal levels of potentially dangerous chemicals in the surrounding environment. When dangerous levels are detected, an application on the cell phone should automatically send sensor and location data over the network to a centralized server, which will then contact appropriate agencies and first responders. The eventual goal of the project is to embed multiple nanoscale sensors (for environmental chemicals, industrial toxins, radiation, and bioagents) directly into mobile phones" "During the development of second-generation prototypes, chemical sensors were separated from the phones, allowing for initial market deployment of the sensors through third-party products, such as sleeves, that could be added to existing phones (U.S. Department of Homeland Security, 2011a). This use of third-party accessory products is intended to speed up the technology's commercial availability so that people can begin using the Cell-All applications with their

urban surveillance: The development of homeland security markets for environmental sensor networks. Torin Monahan & Jennifer T. Mokos: A Department of Communication Studies, The University of North Carolina at Chapel Hill, CB# current phones before integrated sensors are fully operational and readily available." Retrieved from: Crowdsourcing 3285, 115 Bingham Hall, Chapel Hill, NC 27599-3285, USA; and, a Department of Human & Organizational Development, Vanderbilt University, Peabody #90, 230 Appleton Place, Nashville, TN 37203-5721, USA

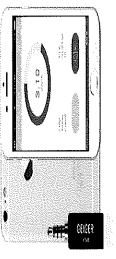
smartphone (picture below). Both Synkera and NASA are independently producing sensors—with Synkera developing DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."



When coronavirus RNA is present in the sample, it prompts the CRISPR proteins to snip the molecular probes, causing CMDC Device Camera Sensor for Biological Detection: "In the diagnostic test (below), a patient sample is the whole sample to emit light. This fluorescence can be detected with a cell phone camera." (Image courtesy Science mixed with CRISPR Cas13 proteins (purple) and molecular probes (green) which fluoresce, or light up, when cut. at Cal). The COVID-19 virus is perceived as a biological weapon of mass destruction (BWMD)



Nuclear Radiation Dosimeter "X-Ray" and "Gamma" Detector Smartphone Android iOS with App". Real-time display CMDC Device Geiger Counter for Radiological Detection: Below is a picture of a "Smart Geiger Counter of measurement results. Ultra-low power consumption. World smallest Geiger Counter (30mm). Compatible with Android and iOS.



Wear (Wear OS—operating system from Samsung's Tizen software) or Watch from Apple (i.e., watchOS 7—operating system). By opening the accompanying app on the smartphone and turning on Bluetooth, the user can synchronize the smartphone, the user installs the app that comes with the smartwatch stand-alone detection device, such as Android Smartwatch: To use a smartwatch as a stand-alone detection device, you need a smartphone. On the smartwatch to function as a stand-alone detection device with the smartphone.

Owner's CMDC device (i.e., communication devices, monitoring device; monitoring equipment). The Patent Owner's Central Processing Unit (CPU): The Central Processing Unit (CPU) is the programmable device capable of CPU is capable of arithmetic operations such as add and divide and flow control operations such as conditionals. The general-purpose computation. It is the engine of logic, as with the brain, and the core piece of hardware in the Patent Patent Owner's central processing unit (CPU) is the electronic circuitry within the CMDC device that is vital and essential processes and executes program instructions.

central processing unit (cpu), such as cpu 40, a transceiver and monitoring equipment to include but not to be limited to case 150 includes a recharging cradle or seat 160, a front side 162, a top 164, a bottom 166, and a pair of opposed sides portable electronic communication or telecommunication devices such as a cell phone 187a and/or a laptop computer computers, laptops, notebooks, PC's, and cell phones for the receipt and transmission of signals therebetween... or a system use (ring tone, email, photos, texting) functions 156 as well as a viewing screen 158. The cell phone detector Patent Specifications: "In addition, the basic monitoring terminal or PC 114, as shown in FIGS. 5 and 15, satellite monitoring... a cell tower, wi-fi, wi-max, broadband, GPS, navigation, radio frequency interconnected to a affixed or mounted... The cell phone monitor 152 includes the standard keypad functions 154 and more specialized bomb, explosives or other types of chemical, biological, radiological, or nuclear agents are detected within, upon, can be adapted and incorporated to include desktop PCs, notebook PCs, laptops, cell phones, LCD monitors, and connection 170, a GPS connection 172, and a contact, plug, or port for a power source 174... the integration of 168. At the back of the cell phone detector case 150 are connections, contacts, and ports for at least an Internet 87b with the monitoring equipment 138 located at a predesignated monitoring site 188...

	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim limitation under the "doctrine of equivalents" for Plaintiff's "lock disabling system", that is interconnected to, or integrated with, Plaintiff's CMDC device(s).
	fingerprint biometric lock with disabler FIG. 14 is a representative schematic view of the lock disabler and a fingerprint biometric lock with disabler FIG. 14 is a representative schematic view of the lock disabling system of the present invention illustrating interconnection of the fingerprint biometric lock with disabler for engaging and disengaging the fingerprint biometric lock as part of the process of detection and safeguarding the public The fingerprint biometric lock with disabler 62 is interconnected to the cpu 40 for receiving transmissions therefrom after detection has occurred so that the lock can be locked or disabled. Moreover, resetting of the fingerprint biometric lock with disabler 62 occurs when the fingerprint of the individual is placed on the fingerprint-matching pad 64, and if a match occurs with a known fingerprint stored by the cpu 40, then the individual can reset the fingerprint biometric lock with disabler 56 a fingerprint that matches stored and authorized fingerprints 102 would indicate an authorized individual, and would allow the individual to disable and disarm 104 the lock The fingerprint biometric lock with disabler 62 would then be reset 106 after the appropriate safety and protection measures are completed, and the system 10 would be reset and placed back in the detection mode 108"
	Example: "If your Apple ID is locked or disabled; if you or someone else enters your password or other account information incorrectly too many times; if your account has been disabled for security reasons; or, if you see one of the following messages, your Apple ID automatically locked to protect your security and you can't sign in to any Apple services: "This Apple ID has been disabled for security reasons"; "You can't sign in because your account was disabled for security reasons"; "This Apple ID has been locked for security reasons", you need to reset your password to regain access. Reset your password: "Use the steps below to reset your password from any trusted iPhone, iPad, iPod touch, or Mac. You can also use a friend or family member's iPhone, iPad, or iPod touch. If that doesn't work, you may not be signed into iCloud on an eligible device or have two-factor authentication enabled for your Apple ID. https://support.apple.com/enus/HT201487
	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation
a detector case including a front side, a rear side, a power source and a Central Processing Unit (cpu);	Apple's iPhone 11 & iPhone 12 Series CPU, or central processing unit, is responsible for most of the functions on your smartphone, such as running the operating system (Apple's iOS) and relaying touch-screen input. The performance of the CPU, that's a part of the chipset, is vital for processing instructions. The devices are designed to include a front side, a rear side, a power source (i.e., batteries and wall chargers which employ USB PD, charge devices using a USB-C connector.)

a plurality of indicator lights located on the front side with each indicator

specific chemical, biological and radiological agent and compound;

indicating the detection of one

light corresponding to and

Apple's iPhone 11 & iPhone 12 Series; and, Apple's Smartwatch Series, sensors to detect, for instance, deadly carbon monoxide levels that are displayed on the screen of the devices. The devices are equipped with sound alarms for finished, the iPhone will automatically call the emergency services. The LED flash on your iPhone can blink when the the user who may be away from his/her device(s), and a light alarm to awake a user who may be sleeping or who may be inside a movie theatre where the sound alarm(s) of the device is turned off. Examples: Apple's panic alarm sound (Emergency SOS). When countdown starts, an alarm will sound. Hold down the buttons until the countdown has device is locked and a notification is received. Useful for not missing an emergency notification.

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation for Plaintiff's CMDC device(s).

satellite and cellular; batteries and wall chargers which employ USB PD, charge devices using a USB-C connector. Apple's iPhone 11 & iPhone 12 Series: GPS with A-GPS. Enhanced tracking and location, that combines



connection, and a power connection located on the rear side and which

an Internet connection, a GPS

are interconnected with the cpu;

Security feature: The Trusted Internet Connection (TIC) Initiative is designed to reduce the number of U. Gov't (USG) network boundary connections. USG agencies must route connections for the increasing number of mobile users accessing cloud services via smart phones through their agency network.

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NODE+ operates independently of the cell phone and transmits the data it gathers using Bluetooth wireless technology. Variable converted off-the-shelf sensors, such as infrared thermometers, color referencers, motion sensors and barcode readers, into interchangeable modules that can be snapped onto either end of smartphone or other smart device, so two George Yu of Genel Systems Inc., created his NODE+ platform — a cylinder not much bigger than a thumb that can modules can be used simultaneously. There is a module for carbon dioxide detection and another that senses carbon Interchangeable Sensors: Building on the system he developed with NASA for the DHS Cell-All project, monoxide, nitric oxide and other gases. "Using a common platform for multiple sensor modules, you save a lot of transmit data from sensors to a smartphone or other smart device or store it to be uploaded to any computer. The

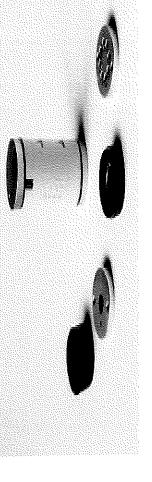
money," Yu says. The NODE+ is compatible with Android and Apple smart devices.

detectors for detecting the chemical, biological and radiological agents

a plurality of interchangeable

being disposed within the detector

and compounds and capable of



The NODE+ platform can be outfitted with an array of different sensor modules and can store data or transmit it to a smart device using Bluetooth wireless technology. Credits: Variable Inc.

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim limitation under the "doctrine of equivalents"

Apple's iPhone 11 & iPhone 12 Series; and, Apple's Smartwatch Series, sensors to detect, for instance, deadly carbon monoxide levels that are displayed on the screen of the devices. The devices are equipped with sound alarms for finished, the iPhone will automatically call the emergency services. The LED flash on your iPhone can blink when the the user who may be away from his/her device(s), and a light alarm to awake a user who may be sleeping or who may be inside a movie theatre where the sound alarm(s) of the device is turned off. Examples: Apple's panic alarm sound (Emergency SOS). When countdown starts, an alarm will sound. Hold down the buttons until the countdown has device is locked and a notification is received. Useful for not missing an emergency notification.

alarm indicator, a readings panel, a light alarm indicator and a sensor each detector including a sound

limitation under the "doctrine of equivalents" for Plaintiff's "lock disabling system", that is interconnected to, Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim or integrated with, Plaintiff's CMDC device(s).

fingerprint biometric lock with disabler 62 is interconnected to the cpu 40... for receiving transmissions therefrom after fingerprint biometric lock with disabler... FIG. 14 is a representative schematic view of the... lock disabling system of lock with disabler 62 occurs when the fingerprint of the individual is placed on the fingerprint-matching pad 64, and if detection... has occurred so that the lock... can be locked or disabled. Moreover, resetting of the fingerprint biometric lock with disabler 56... a fingerprint that matches stored and authorized fingerprints 102 would indicate an authorized a match occurs with a known fingerprint stored by the cpu 40, then the individual can reset the fingerprint biometric Patent Specifications: "FIG. 1 is a perspective view of the... an automatic/mechanical lock disabler and a individual, and would allow the individual to disable and disarm 104 the lock... The fingerprint biometric lock with the present invention illustrating interconnection of the... fingerprint biometric lock with disabler for engaging and disabler 62 would then be reset 106 after the appropriate safety... and protection measures are completed, and the disengaging the fingerprint biometric lock as part of the process of detection and safeguarding the public... The system 10 would be reset and placed back in the detection mode 108"

Apple services: "This Apple ID has been disabled for security reasons"; "You can't sign in because your account was disabled for security reasons"; "This Apple ID has been locked for security reasons", you need to reset your password to regain access. account information incorrectly too many times; if your account has been disabled for security reasons; or, if you Reset your password: "Use the steps below to reset your password from any trusted iPhone, iPad, iPod touch, or Mac. You us/HT201487 Apple's iPhone 11 & iPhone 12 Series Security feature. After multiple failed passcode attempts to open **Example:** "If your Apple ID is locked or disabled; if you or someone else enters your password or other see one of the following messages, your Apple ID automatically locked to protect your security and you can't sign in to any (access) the new and improved cell phone, the device will lock or disable the lock on the device and erase all of the iCloud on an eligible device or have two-factor authentication enabled for your Apple ID. https://support.apple.com/encan also use a friend or family member's iPhone, iPad, or iPod touch. If that doesn't work, you may not be signed into device's data.

and which is mounted to a lock on a product for receiving transmission from the cpu to lock or disable the

lock on the product to prevent

access to the product by unauthorized, untrained and unequipped individuals; and

an automatic/ mechanical lock disabler interconnected to the cpu

Your account has been disabled in the App Store and iTunes. Apple ID Disabled or Locked Apple ID Locked
Your Apple ID Locked for
Your Apple ID has been footed for
weduffy reasons. To unlock IL you
must verify your identify. Unioek Aggount Cancel Sign in with your Apple ID to use iCloud, ITunes, the App Store, f 1 Apple ID 0 Forgot password or don't ha Ţ, Apple 10 < Back

sleeping or who may be inside a movie theatre where the sound alarm(s) of the device is turned off. Examples: Apple's instance, deadly carbon monoxide levels that are displayed on the screen of the devices. The devices are equipped with countdown has finished, the iPhone will automatically call the emergency services. The LED flash on your iPhone can blink when the device is locked and a notification is received. Useful for not missing an emergency notification. The panic alarm sound (Emergency SOS). When countdown starts, an alarm will sound. Hold down the buttons until the sound alarms for the user who may be away from his/her device(s), and a light alarm to awake a user who may be Example: Apple's iPhone 11 & iPhone 12 Series; and, Apple's Smartwatch Series, sensors to detect, for Apple Watch will automatically call 911.

whereupon detection of specific chemical, biological, or radiological agents or compounds by the detectors causes the lighting of the corresponding indicator light for visual confirmation of the detection and initiates signal transmission from the cpu to the automatic/mechanical lock disabler to lock or disable the lock of the product thereby preventing further contamination about the product and denying access to the product by Mapple: unauthorized, untrained and can als



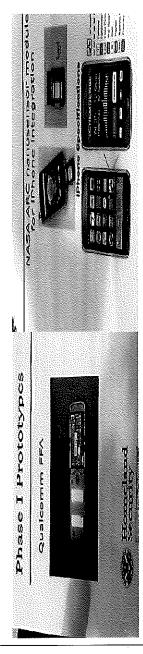
Apple services: "This Apple ID has been disabled for security reasons"; "You can't sign in because your account was disabled for security reasons"; "This Apple ID has been locked for security reasons", you need to reset your password to regain access. Reset your password: "Use the steps below to reset your password from any trusted iPhone, iPad, iPod touch, or Mac. You account information incorrectly too many times; if your account has been disabled for security reasons; or, if you **Example:** "If your Apple ID is locked or disabled; if you or someone else enters your password or other see one of the following messages, your Apple ID automatically locked to protect your security and you can't sign in to any iCloud on an eligible device or have two-factor authentication enabled for your Apple ID. https://support.apple.com/encan also use a friend or family member's iPhone, iPad, or iPod touch. If that doesn't work, you may not be signed into us/HT201487



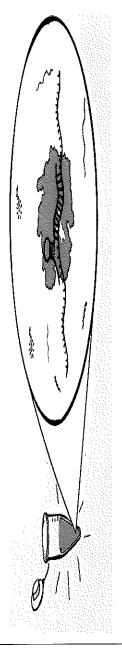
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Patent #: 8,106,752; Independent Claim 10			A multi-sensor detection and lock disabling system for monitoring products and for detecting explosive, nuclear, contraband, chemical, biological, and radiological agents and compounds so that terrorist activity can be prevented, comprising:	

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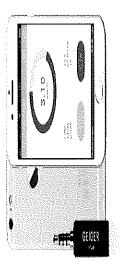


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Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

at least one cell phone detector case having a front side, a rear side, a power source, and a Central processing unit (cpu);

your smartphone, such as running the operating system (Apple's iOS) and relaying touch-screen input. The performance of the CPU, that's a part of the chipset, is vital for processing instructions. The devices are designed to include a front side, a Apple's iPhone 11 & iPhone 12 Series CPU, or central processing unit, is responsible for most of the functions on rear side, a power source (i.e., batteries and wall chargers which employ USB PD, charge devices using a USB-C connector.)

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a plurality of indicator lights located on the front side with each indicator

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim limitation under the "doctrine of equivalents"

NODE+ operates independently of the cell phone and transmits the data it gathers using Bluetooth wireless technology. Variable converted off-the-shelf sensors, such as infrared thermometers, color referencers, motion sensors and barcode readers, into interchangeable modules that can be snapped onto either end of smartphone or other smart device, so two George Yu of Genel Systems Inc., created his NODE+ platform — a cylinder not much bigger than a thumb that can modules can be used simultaneously. There is a module for carbon dioxide detection and another that senses carbon Interchangeable Sensors: Building on the system he developed with NASA for the DHS Cell-All project, monoxide, nitric oxide and other gases. "Using a common platform for multiple sensor modules, you save a lot of transmit data from sensors to a smartphone or other smart device or store it to be uploaded to any computer. The money," Yu says. The NODE+ is compatible with Android and Apple smart devices.



radiological agents and compounds

and capable of being disposed

within the detector case;

a plurality of interchangeable cell

phone sensors for detecting the

chemical, biological, and

The NODE+ platform can be outfitted with an array of different sensor modules and can store data or transmit it to a smart device using Bluetooth wireless technology. Credits: Variable Inc.

Apple's iPhone 11 & iPhone 12 Series; and, Apple's Smartwatch Series, sensors to detect, for instance, deadly carbon monoxide levels that are displayed on the screen of the devices. The devices are equipped with sound alarms for finished, the iPhone will automatically call the emergency services. The LED flash on your iPhone can blink when the the user who may be away from his/her device(s), and a light alarm to awake a user who may be sleeping or who may be inside a movie theatre where the sound alarm(s) of the device is turned off. Examples: Apple's panic alarm sound (Emergency SOS). When countdown starts, an alarm will sound. Hold down the buttons until the countdown has device is locked and a notification is received. Useful for not missing an emergency notification.

each detector case including a sound

alarm indicator, a readings panel, a light alarm indicator and a sensor;

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation for Plaintiff's CMDC device(s).

satellite and cellular; batteries and wall chargers which employ USB PD, charge devices using a USB-C connector. Apple's iPhone 11 & iPhone 12 Series: GPS with A-GPS. Enhanced tracking and location, that combines



connection, and a power connection

an Internet connection, a GPS

located on the rear side and which are interconnected with the cpu;

Security feature: The Trusted Internet Connection (TIC) Initiative is designed to reduce the number of U. S. Gov't (USG) network boundary connections. USG agencies must route connections for the increasing number of mobile users accessing cloud services via smart phones through their agency network. Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim imitation under the "doctrine of equivalents" for Plaintiff's "lock disabling system".

fingerprint biometric lock with disabler 62 is interconnected to the cpu 40... for receiving transmissions therefrom after fingerprint biometric lock with disabler... FIG. 14 is a representative schematic view of the... lock disabling system of lock with disabler 62 occurs when the fingerprint of the individual is placed on the fingerprint-matching pad 64, and if detection... has occurred so that the lock... can be locked or disabled. Moreover, resetting of the fingerprint biometric lock with disabler 56... a fingerprint that matches stored and authorized fingerprints 102 would indicate an authorized a match occurs with a known fingerprint stored by the cpu 40, then the individual can reset the fingerprint biometric individual, and would allow the individual to disable and disarm 104 the lock... The fingerprint biometric lock with Patent specifications: "FIG. 1 is a perspective view of the... an automatic/mechanical lock disabler and a the present invention illustrating interconnection of the... fingerprint biometric lock with disabler for engaging and disabler 62 would then be reset 106 after the appropriate safety... and protection measures are completed, and the disengaging the fingerprint biometric lock as part of the process of detection and safeguarding the public... The system 10 would be reset and placed back in the detection mode 108"

Reset your password or fingerprint: "Use the steps below to reset your password from any trusted iPhone, iPad, iPod touch, or Mac. You can also use a friend or family member's iPhone, iPad, or iPod touch. If that doesn't work, you may not be signed Apple services: "This Apple ID has been disabled for security reasons"; "You can't sign in because your account was disabled for security reasons"; "This Apple ID has been locked for security reasons", you need to reset your password to regain access. account information incorrectly too many times; if your account has been disabled for security reasons; or, if you Example: "If your Apple ID is locked or disabled; if you or someone else enters your password or other into iCloud on an eligible device or have two-factor authentication enabled for your Apple ID. https://support.apple.com/ensee one of the following messages, your Apple ID automatically locked to protect your security and you can't sign in to any us/HT201487 Apple's iPhone 11 & iPhone 12 Series Security feature:

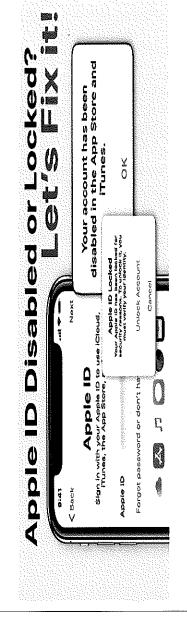
and which is mounted to a lock on a product for receiving transmission from the cpu to lock or disable the

lock on the product to prevent

access to the product by unauthorized, untrained and unequipped individuals; and

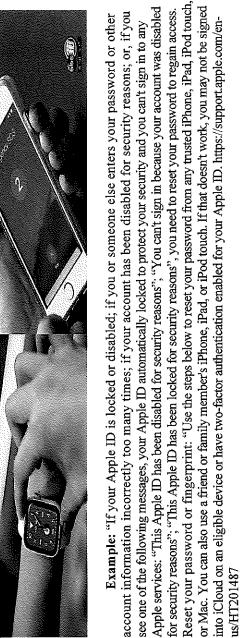
disabler interconnected to the cpu

an automatic/ mechanical lock



sleeping or who may be inside a movie theatre where the sound alarm(s) of the device is turned off. Examples: Apple's instance, deadly carbon monoxide levels that are displayed on the screen of the devices. The devices are equipped with countdown has finished, the iPhone will automatically call the emergency services. The LED flash on your iPhone can blink when the device is locked and a notification is received. Useful for not missing an emergency notification. The panic alarm sound (Emergency SOS). When countdown starts, an alarm will sound. Hold down the buttons until the sound alarms for the user who may be away from his/her device(s), and a light alarm to awake a user who may be Example: Apple's iPhone 11 & iPhone 12 Series; and, Apple's Smartwatch Series, sensors to detect, for Apple Watch will automatically call 911.

whereupon detection of specific chemical, biological, or radiological agents or compounds by the detectors causes the lighting of the corresponding indicator light for visual confirmation of the detection and sends out a signal to another cell phone case, a handheld, a computer terminal located at a monitoring site, followed by and communicating with the cpu of the multi-sensor detection and automatic/mechanical lock disabler for exchanging Reset y information.

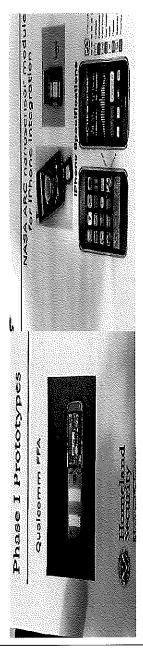




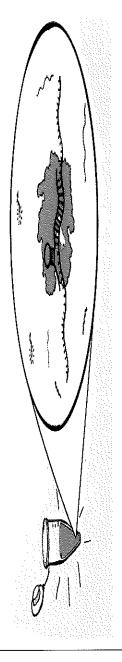
dent Apple iPhone 11 & iPhone 12 Series and Apple Watch Series 5 & 6	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation for Plaintiff's CMDC device(s).	Apple iPhone 11 & iPhone 12 Series are believed to be communicating, monitoring, detecting, and controlling (CMDC) devices of at least one of the <i>new and improved</i> products grouped together by common features in the product groupings category of design similarity (i.e., computer terminal, personal computer (PC), laptop, desktop, notebook, handheld, cell phone, PDA or smart phone); that comprises, are interconnected to, or integrated with, at least a Central Processing Unit (CPU), that is vital for processing instructions; an Operating System (OS); mobile apps developed for the CMDC devices operating system (OS) such as Android, Apple® iOS®, BlackBerry®, or Windows® Mobile; wireless protocol of Cellular, Bluetooth, Wi-Fi, etc., and CBRNE-H sensors that are placed in, on, upon, or adjacent the <i>new and improved</i> CMDC devices; interconnected to the CMDC devices for communication therebetween.	constructions are reproduced "communication device" is construed to mean "monitoring equipment"; and, "built in, embedded" is constructed to include "something is included within, incorporated into, disposed within, affixed to, connected to, or mounted to another device, such that it is an integral part of the devices. Patent Owner argues that connected to, or mounted to another device, such that it is an integral part of the devices. Patent Owner argues that in the art as a type of communication device or monitoring equipment because cell phones and smartphones are devices in the art as a type of communication and are capable of receiving signals." "As Patent Owner explains, the added language is broad enough to include the removed items, and is intended to reflect the entire genus of "monitoring equipment" and "communication advices" that "are capable of communication and are capable of communication and are capable of receiving signals." As Patent Owner explains, the added language is broad enough to include the removed items, and is intended to reflect the entire genus of "monitoring equipment" and "communication advices". Thus, the claim has been broadened to not only include the listed species that have been removed, but anything falling within the claimed genus." UNITED STATES DEPARTMENT OF HOMELAND SECURITY, Petitioner, v. LARRY GOLDEN, Patent Owner. Case IPR2014-00714. Entered: October 1, 2015	The Department of Homeland Security's Cell-All project. "Cell-All is a program managed by DHS to develop software and hardware that enables smartphones to function as handheld, pervasive environmental sensors. In the initial research and development phase, engineers miniaturized sensors to detect abnormal levels of potentially dangerous chemicals in the surrounding environment. When dangerous levels are detected, an application on the cell phone should automatically send sensor and location data over the network to a centralized server, which will then contact appropriate agencies and first responders. The eventual goal of the project is to embed multiple nanoscale sensors (for environmental chemicals, industrial toxins, radiation, and bioagents) directly into mobile phones" "During the development of second-generation prototypes, chemical sensors were separated from the phones, allowing
Patent #: 9,096,189; Independent Claim 1			A communication device of at least one of a cell phone, a smart phone, a desktop, a handheld, a PDA, a laptop, or a computer terminal for monitoring products, interconnected to a product for communication therebetween, comprising:	

existing phones (U.S. Department of Homeland Security, 2011a). This use of third-party accessory products is intended urban surveillance: The development of homeland security markets for environmental sensor networks. Torin Monahan to speed up the technology's commercial availability so that people can begin using the Cell-All applications with their & Jennifer T. Mokos: A Department of Communication Studies, The University of North Carolina at Chapel Hill, CB# current phones before integrated sensors are fully operational and readily available." Retrieved from: Crowdsourcing 3285, 115 Bingham Hall, Chapel Hill, NC 27599-3285, USA; and, a Department of Human & Organizational Development, Vanderbilt University, Peabody #90, 230 Appleton Place, Nashville, TN 37203-5721, USA

smartphone (picture below). Both Synkera and NASA are independently producing sensors-with Synkera developing DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."

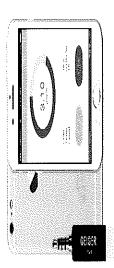


When coronavirus RNA is present in the sample, it prompts the CRISPR proteins to snip the molecular probes, causing CMDC Device Camera Sensor for Biological Detection: "In the diagnostic test (below), a patient sample is the whole sample to emit light. This fluorescence can be detected with a cell phone camera." (Image courtesy Science mixed with CRISPR Cas13 proteins (purple) and molecular probes (green) which fluoresce, or light up, when cut. at Cal). The COVID-19 virus is perceived as a biological weapon of mass destruction (BWMD)



Nuclear Radiation Dosimeter "X-Ray" and "Gamma" Detector Smartphone Android iOS with App". Real-time display CMDC Device Geiger Counter for Radiological Detection: Below is a picture of a "Smart Geiger Counter

of measurement results. Ultra-low power consumption. World smallest Geiger Counter (30mm). Compatible with Android and iOS.



Wear (Wear OS-operating system from Samsung's Tizen software) or Watch from Apple (i.e., watchOS 7-operating system). By opening the accompanying app on the smartphone and turning on Bluetooth, the user can synchronize the smartphone, the user installs the app that comes with the smartwatch stand-alone detection device, such as Android Smartwatch: To use a smartwatch as a stand-alone detection device, you need a smartphone. On the smartwatch to function as a stand-alone detection device with the smartphone.

Owner's CMDC device (i.e., communication devices, monitoring device; monitoring equipment). The Patent Owner's Central Processing Unit (CPU): The Central Processing Unit (CPU) is the programmable device capable of CPU is capable of arithmetic operations such as add and divide and flow control operations such as conditionals. The general-purpose computation. It is the engine of logic, as with the brain, and the core piece of hardware in the Patent Patent Owner's central processing unit (CPU) is the electronic circuitry within the CMDC device that is vital and essential processes and executes program instructions.

central processing unit (cpu), such as cpu 40, a transceiver and monitoring equipment to include but not to be limited to case 150 includes a recharging cradle or seat 160, a front side 162, a top 164, a bottom 166, and a pair of opposed sides computers, laptops, notebooks, PC's, and cell phones for the receipt and transmission of signals therebetween... or a system use (ring tone, email, photos, texting) functions 156 as well as a viewing screen 158. The cell phone detector satellite monitoring... a cell tower, wi-ff, wi-max, broadband, GPS, navigation, radio frequency interconnected to a affixed or mounted... The cell phone monitor 152 includes the standard keypad functions 154 and more specialized Patent Specifications: "In addition, the basic monitoring terminal or PC 114, as shown in FIGS. 5 and 15, bomb, explosives or other types of chemical, biological, radiological, or nuclear agents are detected within, upon, can be adapted and incorporated to include desktop PCs, notebook PCs, laptops, cell phones, LCD monitors, and 168. At the back of the cell phone detector case 150 are connections, contacts, and ports for at least an Internet connection 170, a GPS connection 172, and a contact, plug, or port for a power source 174.

Plaintiff believes t claim limitation	Apple's iPhone 11 functions on your smartphon input. The performance of the Watch Series 1 is called S1I the Apple S2 except notably new GPU capabilities as the
at least one of a central processing unit (CPU) for executing and carrying out the instructions of a	computer program, a network processor which is specifically targeted at the networking application domain, or a front-end processor for communication between a host computer and other devices;

he Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's

he CPU, that's a part of the chipset, is vital for processing instructions. The SiP in Apple & iPhone 12 Series: The CPU, or central processing unit, is responsible for most of the P and looks superficially identical to the S1, but it includes most of the new features of y for the on-chip GPS functionality. It contains the same dual-core CPU with the same ne, such as running the operating system (Apple's iOS) and relaying touch-screen S2 making it about 50% faster than the S1

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

Apple's iPhone 11 & iPhone 12 Series transmits signals and messages to at least one of plurality product groups

phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, face recognition, band geometry, (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, [are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Intelligence Agency (CIA), detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, retina scan, iris scan and signature... Product grouping 7 (authorized person) include, but are not limited to, owner, nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border security personnel, first communication devices, mobile communication units, portable communication devices, portable communication pilot, conductor, captain, drivers of vehicles identified as high security, airport security, police, highway patrol, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF)... Product grouping 6 responders, monitoring sites and terminal personnel"

a transmitter for transmitting signals

and messages to at least one of

plurality product groups based on

detection device, a maritime cargo

the categories of a multi-sensor

container, a cell phone detection

device, or a locking device;

phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is Apple's iPhone 11 & iPhone 12 Series receives signals, data or messages from at least one of plurality product containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants face recognition, band geometry, retina scan, iris scan and signature... Product grouping 7 (authorized person) include, Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's limitation of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, but are not limited to, owner, pilot, conductor, captain, drivers of vehicles identified as high security, airport security, Intelligence Agency (CIA), the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, (GPS)... Product grouping 6 (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF), Global Positioning System police, highway patrol, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central communication devices, mobile communication units, portable communication devices, portable communication Apple's iPhone 11 & iPhone 12 Series are literally infringing the wireless protocols listed in the claim security personnel, first responders, monitoring sites and terminal personnel" claim limitation claim limitation a receiver for receiving signals, data detection device, a maritime cargo or messages from at least one of plurality product groups based on radio frequency (RF) connection, container, a cell phone detection the categories of a multi-sensor at least one satellite connection, connection, internet connection, cellular connection, broadband Bluetooth connection, WiFi device, or a locking device;

connection, cellular connection, broadband connection, long and short-range radio frequency (RF) connection, or GPS

connection.

radio frequency (RF) connection, or

GPS connection;

connection, long and short-range

the communication device is at least	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation
a fixed, portable or mobile communication device interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween; and	When you use Apple Pay in stores that accept contactless payments, Apple Pay uses Near Field Communication (NFC) technology between your device and the payment terminal. NFC is an industry-standard, contactless technology that's designed to work only across short distances. Apple Pay is a contactless payment technology for Apple devices. Your debit and credit cards are on your iPhone or Apple Watch, allowing you to pay using your device instead of a card. To accept payments, have customers hold their iPhone, iPad or Apple Watch near the reader until four green lights appear and a chime sound. When you see the check mark on your screen, the transaction is complete.
whereupon the communication device, is interconnected to a product equipped to receive signals	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation
from or send signals to lock or unlock doors, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems	Apple's iPhone 11 & iPhone 12 Series Security feature: The devices are is capable of sending signals to lock and unlock doors; activate or deactivate security systems in homes, buildings, or vehicles; detect for Chemical, Biological, Radiological, Nuclear, or Explosive's agents; to stop, stall, or slowdown vehicles, to include driverless land and aerial vehicles; of diagnosing biological and/or chemical medical conditions, and receiving data that the intended task has been accomplished.
	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation
	Apple's iPhone 11 & iPhone 12 Series receives signals, data or messages from at least one of plurality product groups.
wherein the communication device receives a signal via any of one or more products listed in any of the plurality of product grouping categories;	Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train carsProduct grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, detection of humans Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is [are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is [are] adjacent to Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile communication devices, mobile communication units, portable communication devices, portable communication devices, wireless communication devices, monitoring terminals,

desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants face recognition, band geometry, retina scan, iris scan and signature... Product grouping 7 (authorized person) include, connection, cellular connection, broadband connection, long and short-range radio frequency (RF) connection, or GPS Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, limitation of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) but are not limited to, owner, pilot, conductor, captain, drivers of vehicles identified as high security, airport security, Intelligence Agency (CIA), the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border (GPS)... Product grouping 6 (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF), Global Positioning System police, highway patrol, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Apple's iPhone 11 & iPhone 12 Series are literally infringing the wireless protocols listed in the claim security personnel, first responders, monitoring sites and terminal personnel" claim limitation connection. communication with the transmitter connection, Bluetooth connection, connection, radio frequency (RF) short-range radio frequency (RF) connection, cellular connection, broadband connection, long and connection is capable of signal wherein at least one satellite transceivers of the products; communication device and WiFi connection, internet and the receiver of the

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim limitation under the "doctrine of equivalents" for Plaintiff's "lock disabling system".

fingerprint biometric lock with disabler 62 is interconnected to the cpu 40... for receiving transmissions therefrom after fingerprint biometric lock with disabler... FIG. 14 is a representative schematic view of the... lock disabling system of lock with disabler 62 occurs when the fingerprint of the individual is placed on the fingerprint-matching pad 64, and if detection... has occurred so that the lock... can be locked or disabled. Moreover, resetting of the fingerprint biometric lock with disabler 56... a fingerprint that matches stored and authorized fingerprints 102 would indicate an authorized a match occurs with a known fingerprint stored by the cpu 40, then the individual can reset the fingerprint biometric individual, and would allow the individual to disable and disarm 104 the lock... The fingerprint biometric lock with Patent specifications: "FIG. 1 is a perspective view of the... an automatic/mechanical lock disabler and a the present invention illustrating interconnection of the... fingerprint biometric lock with disabler for engaging and disabler 62 would then be reset 106 after the appropriate safety... and protection measures are completed, and the disengaging the fingerprint biometric lock as part of the process of detection and safeguarding the public... The system 10 would be reset and placed back in the detection mode 108"

hand geometry, retina scan, iris scan

and signature such that the

voice recognition, face recognition,

one of a fingerprint recognition,

wherein the communication device

is equipped with a biometric lock disabler that incorporates at least least one of the cell phone, the smart

communication device that is at

the PDA, the laptop or the computer

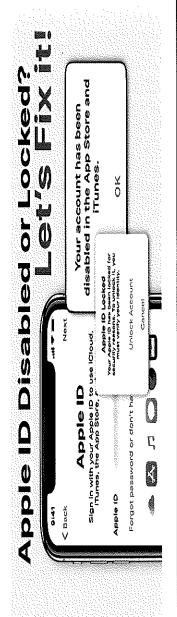
phone, the desktop, the handheld,

terminal is locked by the biometric

lock disabler to prevent

unauthorized use

Reset your password or fingerprint: "Use the steps below to reset your password from any trusted iPhone, iPad, iPod touch, or Mac. You can also use a friend or family member's iPhone, iPad, or iPod touch. If that doesn't work, you may not be signed Apple services: "This Apple ID has been disabled for security reasons"; "You can't sign in because your account was disabled for security reasons"; "This Apple ID has been locked for security reasons", you need to reset your password to regain access. account information incorrectly too many times; if your account has been disabled for security reasons; or, if you **Example:** "If your Apple ID is locked or disabled; if you or someone else enters your password or other into iCloud on an eligible device or have two-factor authentication enabled for your Apple ID. https://support.apple.com/ensee one of the following messages, your Apple ID automatically locked to protect your security and you can't sign in to any us/HT201487 Apple's iPhone 11 & iPhone 12 Series Security feature:



Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

communication with the transmitter

communication device and and the receiver of the

wherein the only type or types of

address registered with the carrier when signing up for Wi-Fi Calling as the user's location. When connected to Wi-Fi Wi-Fi Calling has been enabled, emergency calls may be made over Wi-Fi. Emergency calls on the iPhone are routed calls to aid response efforts, regardless of whether the user has enabled Location Services. Some carriers may use the Calling, emergency calls may be made over Wi-Fi, and the device's location information may be used for emergency Apple's iPhone 11 & iPhone 12 Series Security feature: In the event that cellular service isn't available, and through cellular service when available. In the event that cellular service isn't available, and you have enabled Wi-Fi calling, the iPhone may not receive emergency alerts. transceivers of the products is a type

(RF), cellular, broadband, and long

WiFi, internet, radio frequency

and short-range radio frequency

consisting of satellite, Bluetooth, or types selected from the group

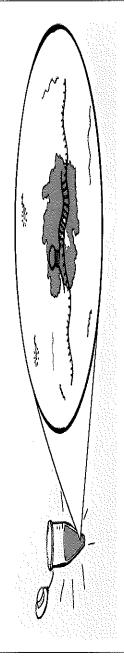
Patent #: 9,096,189; Independent Claim 2	Apple iPhone 11 & iPhone 12 Series and Apple Watch Series 5 & 6
	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation for Plaintiff's CMDC device(s).
	Apple iPhone 11 & iPhone 12 Series are believed to be communicating, monitoring, detecting, and controlling (CMDC) devices of at least one of the new and improved products grouped together by common features in the product groupings category of design similarity (i.e., computer terminal, personal computer (PC), laptop, desktop, notebook, handheld, cell phone, PDA or smart phone); that comprises, are interconnected to, or integrated with, at least a Central Processing Unit (CPU), that is vital for processing instructions; an Operating System (OS); mobile apps developed for the CMDC devices operating system (OS) such as Android, Apple® iOS®, BlackBerry®, or Windows® Mobile; wireless protocol of Cellular, Bluetooth, Wi-Fi, etc., and CBRNE-H sensors that are placed in, on, upon, or adjacent the new and improved CMDC devices; interconnected to the CMDC devices for communication therebetween.
Monitoring equipment of at least one of the products grouped together by common features in the product groupings category of design similarity (i.e., computer terminal, personal computer (PC), laptop, desktop, notebook, handheld, cell phone, PDA or smart phone) interconnected to a product for communication therebetween, communication therebetween,	IPR Final Written Decision . "In the Decision to Institute, we construed certain claim terms. Those constructions are reproduced "communication device" is construed to mean "monitoring equipment"; and, "built in, embedded" is construed to include "something is included within, incorporated into, disposed within, affixed to, connected to, or mounted to another device, such that it is an integral part of the device". Patent Owner argues that "[1]he specific devices removed, such as the cell phones and smart phones would be recognized by one of ordinary skill in the art as a type of communication device or monitoring equipment because cell phones and smartphones are devices that are capable of communication and are capable of receiving signals." "As Patent Owner explains, the added language is broad enough to include the removed items, and is intended to reflect the entire genus of "monitoring equipment" and "communications devices" that "are capable of communication and capable of receiving signals." Mot. to Amend 4, 5. Thus, the claim has been broadened to not only include the listed species that have been removed, but anything falling within the claimed genus." UNITED STATES DEPARTMENT OF HOMELAND SECURITY, Petitioner, v. LARRY GOLDEN, Patent Owner. Case IPR2014-00714. Entered: October 1, 2015
	The Department of Homeland Security's Cell-All project. "Cell-All is a program managed by DHS to develop software and hardware that enables smartphones to function as handheld, pervasive environmental sensors. In the initial research and development phase, engineers miniaturized sensors to detect abnormal levels of potentially dangerous chemicals in the surrounding environment. When dangerous levels are detected, an application on the cell phone should automatically send sensor and location data over the network to a centralized server, which will then contact appropriate agencies and first responders. The eventual goal of the project is to embed multiple nanoscale sensors (for environmental chemicals, industrial toxins, radiation, and bioagents) directly into mobile phones" "During the development of second-generation prototypes, chemical sensors were separated from the phones, allowing for initial market deployment of the sensors through third-party products, such as sleeves, that could be added to existing phones (U.S. Department of Homeland Security, 2011a). This use of third-party accessory products is intended to speed up the technology's commercial availability so that people can begin using the Cell-All applications with their

urban surveillance: The development of homeland security markets for environmental sensor networks. Torin Monahan & Jennifer T. Mokos: A Department of Communication Studies, The University of North Carolina at Chapel Hill, CB# current phones before integrated sensors are fully operational and readily available." Retrieved from: Crowdsourcing 3285, 115 Bingham Hall, Chapel Hill, NC 27599-3285, USA, and, a Department of Human & Organizational Development, Vanderbilt University, Peabody #90, 230 Appleton Place, Nashville, TN 37203-5721, USA

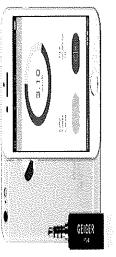
smartphone (picture below). Both Synkera and NASA are independently producing sensors—with Synkera developing DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."



When coronavirus RNA is present in the sample, it prompts the CRISPR proteins to snip the molecular probes, causing CMDC Device Camera Sensor for Biological Detection: "In the diagnostic test (below), a patient sample is the whole sample to emit light. This fluorescence can be detected with a cell phone camera." (Image courtesy Science mixed with CRISPR Cas13 proteins (purple) and molecular probes (green) which fluoresce, or light up, when cut. at Cal). The COVID-19 virus is perceived as a biological weapon of mass destruction (BWMD)



CMDC Device Geiger Counter for Radiological Detection: Below, is a picture of a "Smart Geiger Counter Nuclear Radiation Dosimeter "X-Ray" and "Gamma" Detector Smartphone Android iOS with App. Real-time display of measurement results. Ultra-low power consumption. World smallest Geiger Counter (30mm). Compatible with Android and iOS." (Samsung & LG's Android; and Apple's iOS)



Wear (Wear OS-operating system from Samsung's Tizen software) or Watch from Apple (i.e., watchOS 7-operating system). By opening the accompanying app on the smartphone and turning on Bluetooth, the user can synchronize the smartphone, the user installs the app that comes with the smartwatch stand-alone detection device, such as Android Smartwatch: To use a smartwatch as a stand-alone detection device, you need a smartphone. On the smartwatch to function as a stand-alone detection device with the smartphone.

Central Processing Unit (CPU): The Central Processing Unit (CPU) is the programmable device capable of Owner's CMDC device (i.e., communication devices, monitoring device; monitoring equipment). The Patent Owner's CPU is capable of arithmetic operations such as add and divide and flow control operations such as conditionals. The general-purpose computation. It is the engine of logic, as with the brain, and the core piece of hardware in the Patent Patent Owner's central processing unit (CPU) is the electronic circuitry within the CMDC device that is vital and essential processes and executes program instructions.

central processing unit (cpu), such as cpu 40, a transceiver and monitoring equipment to include but not to be limited to case 150 includes a recharging cradle or seat 160, a front side 162, a top 164, a bottom 166, and a pair of opposed sides portable electronic communication or telecommunication devices such as a cell phone 187a and/or a laptop computer computers, laptops, notebooks, PC's, and cell phones for the receipt and transmission of signals therebetween... or a system use (ring tone, email, photos, texting) functions 156 as well as a viewing screen 158. The cell phone detector Patent Specifications: "In addition, the basic monitoring terminal or PC 114, as shown in FIGS. 5 and 15, satellite monitoring... a cell tower, wi-fi, wi-max, broadband, GPS, navigation, radio frequency interconnected to a affixed or mounted... The cell phone monitor 152 includes the standard keypad functions 154 and more specialized bomb, explosives or other types of chemical, biological, radiological, or nuclear agents are detected within, upon, can be adapted and incorporated to include desktop PCs, notebook PCs, laptops, cell phones, LCD monitors, and connection 170, a GPS connection 172, and a contact, plug, or port for a power source 174... the integration of 168. At the back of the cell phone detector case 150 are connections, contacts, and ports for at least an Internet 87b with the monitoring equipment 138 located at a predesignated monitoring site 188...

Plaintiff believes claim limitation	Apple's iPhone 11 functions on your smartpho input. The performance of t Watch Series 1 is called S11 the Apple S2 except notably new GPU capabilities as the
at least one of a central processing unit (CPU) for executing and carrying out the instructions of a	computer program, a network processor which is specifically targeted at the networking application domain, or a front-end processor for communication between a host computer and other

the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's

the CPU, that's a part of the chipset, is vital for processing instructions. The SiP in Apple & iPhone 12 Series: The CPU, or central processing unit, is responsible for most of the P and looks superficially identical to the S1, but it includes most of the new features of y for the on-chip GPS functionality. It contains the same dual-core CPU with the same me, such as running the operating system (Apple's iOS) and relaying touch-screen e S2 making it about 50% faster than the S1

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

Apple's iPhone 11 & iPhone 12 Series transmits signals and messages to at least one of plurality product groups.

phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, face recognition, band geometry, [are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Intelligence Agency (CIA), detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is retina scan, iris scan and signature... Product grouping 7 (authorized person) include, but are not limited to, owner, nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border security personnel, first communication devices, mobile communication units, portable communication devices, portable communication pilot, conductor, captain, drivers of vehicles identified as high security, airport security, police, highway patrol, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF)... Product grouping 6 responders, monitoring sites and terminal personnel"

a transmitter for transmitting signals

and messages to at least one of

detection device, a maritime cargo

the categories of a multi-sensor

container, a cell phone detection

plurality product groups based on

_
nitation
claim li

Apple's iPhone 11 & iPhone 12 Series receives signals, or data or from at least one of plurality product groups.

phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants face recognition, band geometry, retina scan, iris scan and signature... Product grouping 7 (authorized person) include, are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, but are not limited to, owner, pilot, conductor, captain, drivers of vehicles identified as high security, airport security, Intelligence Agency (CIA), the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, (GPS)... Product grouping 6 (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF), Global Positioning System police, highway patrol, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central communication devices, mobile communication units, portable communication devices, portable communication security personnel, first responders, monitoring sites and terminal personnel"

a receiver for receiving signals, data

or messages from at least one of plurality product groups based on detection device, a maritime cargo

the categories of a multi-sensor

container, a cell phone detection

limitation under the "doctrine of equivalents" for Plaintiff's "lock disabling system", that is interconnected to, Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim or integrated with, Plaintiff's CMDC device(s).

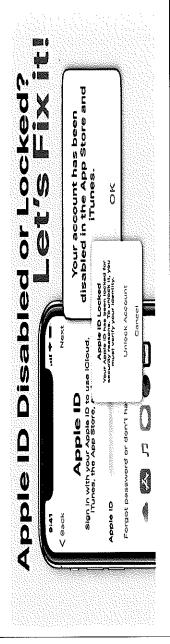
fingerprint biometric lock with disabler 62 is interconnected to the cpu 40... for receiving transmissions therefrom after fingerprint biometric lock with disabler... FIG. 14 is a representative schematic view of the... lock disabling system of lock with disabler 62 occurs when the fingerprint of the individual is placed on the fingerprint-matching pad 64, and if detection... has occurred so that the lock... can be locked or disabled. Moreover, resetting of the fingerprint biometric lock with disabler 56... a fingerprint that matches stored and authorized fingerprints 102 would indicate an authorized individual, and would allow the individual to disable and disarm 104 the lock... The fingerprint biometric lock with a match occurs with a known fingerprint stored by the cpu 40, then the individual can reset the fingerprint biometric Patent Specifications: "FIG. 1 is a perspective view of the... an automatic/mechanical lock disabler and a the present invention illustrating interconnection of the... fingerprint biometric lock with disabler for engaging and disengaging the fingerprint biometric lock as part of the process of detection and safeguarding the public... The

a lock disabling mechanism that is able to engage (lock) and disable (make unavailable) a product's lock, wherein the lock disabling mechanism disables the product's lock after a specific number of tries by an unauthorized user to disengage the lock by maintaining the product's lock in the current state of the product's lock regardless of input entered to change the state of the product's lock by the

unauthorized user;

disabler 62 would then be reset 106 after the appropriate safety... and protection measures are completed, and the system 10 would be reset and placed back in the detection mode 108"

Apple services: "This Apple ID has been disabled for security reasons"; "You can't sign in because your account was disabled for security reasons"; "This Apple ID has been locked for security reasons"; you need to reset your password to regain access. account information incorrectly too many times; if your account has been disabled for security reasons; or, if you Reset your password: "Use the steps below to reset your password from any trusted iPhone, iPad, iPod touch, or Mac. You us/HT201487 Apple's iPhone 11 & iPhone 12 Series Security feature: After multiple failed passcode attempts to open Example: "If your Apple ID is locked or disabled; if you or someone else enters your password or other see one of the following messages, your Apple ID automatically locked to protect your security and you can't sign in to any (access) the new and improved cell phone, the device will lock or disable the lock on the device and erase all of the iCloud on an eligible device or have two-factor authentication enabled for your Apple ID. https://support.apple.com/encan also use a friend or family member's iPhone, iPad, or iPod touch. If that doesn't work, you may not be signed into device's data.



Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, broadband connection, long and short-range radio frequency (RF) connection, or

GPS connection;

at least one satellite connection,

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's

connection, cellular connection, broadband connection, long and short-range radio frequency (RF) connection, or GPS limitation of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) Apple's iPhone 11 & iPhone 12 Series are literally infringing the wireless protocols listed in the claim connection.

	THE THE PROPERTY AND THE PROPERTY OF THE PROPE
monitoring equipment of at least a	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation
fixed, portable or mobile monitoring equipment interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween; and	When you use Apple Pay in stores that accept contactless payments, Apple Pay uses Near Field Communication (NFC) technology between your device and the payment terminal. NFC is an industry-standard, contactless technology that's designed to work only across short distances. Apple Pay is a contactless payment technology for Apple devices. Your debit and credit cards are on your iPhone or Apple Watch, allowing you to pay using your device instead of a card. To accept payments, have customers hold their iPhone, iPad or Apple Watch near the reader until four green lights appear and a chime sound. When you see the check mark on your screen, the transaction is complete.
whereupon the monitoring equipment, is interconnected to a product equipped to receive signals from or send signals to the lock	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation
disabling mechanism that is able to engage and disengage or disable the lock, activate or deactivate security systems, activate or deactivate multi-sensor detection systems, or to activate or deactivate cell phone detection systems;	Apple's iPhone 11 & iPhone 12 Series Security feature: The devices are is capable of sending signals to lock and unlock doors; activate or deactivate security systems in homes, buildings, or vehicles; detect for Chemical, Biological, Radiological, Nuclear, or Explosive's agents; to stop, stall, or slowdown vehicles, to include driverless land and aerial vehicles; of diagnosing biological and/or chemical medical conditions, and receiving data that the intended task has been accomplished.
	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation
wherein the monitoring equipment is implemented by business or government at a minimum cost by products grouped together by common features in at least one of several product groupings of design	Cell-All is a program managed by DHS to develop software and hardware that enables smartphones to function as handheld, pervasive environmental sensors "During the development of second-generation prototypes, chemical sensors were separated from the phones, allowing for initial market deployment of the sensors through third-party products, such as sleeves, that could be added to existing phones (U.S. Department of Homeland Security, 2011a). This use of third-party accessory products is intended to speed up the technology's commercial availability so that people can begin using the Cell-All applications with their current phones before integrated sensors are fully operational and readily available."
similarity;	Patent Specifications: Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile communication devices, mobile communication units, portable communication devices, portable communication equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants (PDAs), handhelds

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

connection, cellular connection, broadband connection, long and short-range radio frequency (RF) connection, or GPS limitation of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) Apple's iPhone 11 & iPhone 12 Series are literally infringing the wireless protocols listed in the claim connection.

Monitoring Equipment: Apple Watch Series 5 & 6 and Apple's iPhone 11 & iPhone 12 Series basically have the same "common features of design similarity" to include the ability to operate as a stand-alone detection device, or a detection device that is interconnected through Bluetooth, to the iPhone 11 & iPhone 12 Series. The wireless protocols consist of at least that of a Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, satellite connection, WiFi, and broadband connection



communication with the transmitter

and the receiver of the monitoring

equipment and transceivers of the

products.

broadband connection, or long and

short-range radio frequency (RF)

connection is in signal

connection, Bluetooth connection,

WiFi connection, internet

wherein at least one satellite

connection, radio frequency (RF)

connection, cellular connection,

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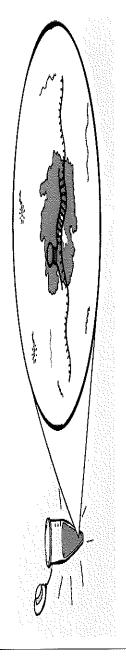
Patent #: 9,096,189; Independent Claim 3	Apple iPhone 11 & iPhone 12 Series and Apple Watch Series 5 & 6 Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's
	Apple iPhone 11 & iPhone 12 Series are believed to be communicating, monitoring, detecting, and controlling (CMDC) devices of at least one of the new and improved products grouped together by common features in the product groupings category of design similarity (i.e., computer terminal, personal computer (PC), laptop, desktop, notebook, handheld, cell phone, PDA or smart phone); that comprises, are interconnected to, or integrated with, at least a Central Processing Unit (CPU), that is vital for processing instructions; an Operating System (OS); mobile apps developed for the CMDC devices operating system (OS) such as Android, Apple® iOS®, BlackBerry®, or Windows® Mobile; wireless protocol of Cellular, Bluetooth, Wi-Fi, etc., and CBRNE-H sensors that are placed in, on, upon, or adjacent the new and improved CMDC devices; interconnected to the CMDC devices for communication therebetween.
Monitoring equipment of at least one of the products grouped together by common features in the product groupings category of design similarity (i.e., computer terminal, personal computer (PC), laptop, desktop, notebook, handheld, cell phone, PDA or smart phone) interconnected to a product for communication therebetween, comprising:	IPR Final Written Decision. "In the Decision to Institute, we construed certain claim terms. Those constructions are reproduced "communication device" is construed to mean "monitoring equipment"; and, "built in, embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to, connected to, or mounted to another device, such that it is an integral part of the device". Patent Owner argues that "[f]he specific devices removed, such as the cell phones and smart phones would be recognized by one of ordinary skill in the art as a type of communication device or monitoring equipment because cell phones and smartphones are devices that are capable of communication and are capable of receiving signals." "As Patent Owner explains, the added language is broad enough to include the removed items, and is intended to reflect the entire genus of "monitoring equipment" and "communications devices" that "are capable of communication and capable of receiving signals." Mot. to Amend 4, 5. Thus, the claim has been broadened to not only include the listed species that have been removed, but anything falling within the claimed genus." UNITED STATES DEPARTMENT OF HOMELAND SECURITY, Petitioner, v. LARRY GOLDEN, Patent Owner. Case IPR2014-00714. Entered: October 1, 2015
	The Department of Homeland Security's Cell-All project. "Cell-All is a program managed by DHS to develop software and hardware that enables smartphones to function as handheld, pervasive environmental sensors. In the initial research and development phase, engineers miniaturized sensors to detect abnormal levels of potentially dangerous chemicals in the surrounding environment. When dangerous levels are detected, an application on the cell phone should automatically send sensor and location data over the network to a centralized server, which will then contact appropriate agencies and first responders. The eventual goal of the project is to embed multiple nanoscale sensors (for environmental chemicals, industrial toxins, radiation, and bioagents) directly into mobile phones" "During the development of second-generation prototypes, chemical sensors were separated from the phones, allowing for initial market deployment of the sensors through third-party products, such as sleeves, that could be added to existing phones (U.S. Department of Homeland Security, 2011a). This use of third-party accessory products is intended to speed up the technology's commercial availability so that people can begin using the Cell-All applications with their

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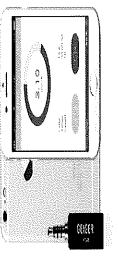
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Nuclear Radiation Dosimeter "X-Ray" and "Gamma" Detector Smartphone Android iOS with App". Real-time display CMDC Device Geiger Counter for Radiological Detection: Below is a picture of a "Smart Geiger Counter of measurement results. Ultra-low power consumption. World smallest Geiger Counter (30mm). Compatible with Android and iOS.



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input. The performance of the CPU, that's a part of the chipset, is vital for processing instructions. The SiP in Apple Apple's iPhone 11 & iPhone 12 Series: The CPU, or central processing unit, is responsible for most of the Watch Series 1 is called S1P and looks superficially identical to the S1, but it includes most of the new features of the Apple S2 except notably for the on-chip GPS functionality. It contains the same dual-core CPU with the same functions on your smartphone, such as running the operating system (Apple's iOS) and relaying touch-screen new GPU capabilities as the S2 making it about 50% faster than the S1

Apple's iPhone 11 & iPhone 12 Series communicates with any of the products listed in any of the product grouping categories.

phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, face recognition, band geometry, [are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Intelligence Agency (CIA), detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo retina scan, iris scan and signature... Product grouping 7 (authorized person) include, but are not limited to, owner, nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border security personnel, first communication devices, mobile communication units, portable communication devices, portable communication pilot, conductor, captain, drivers of vehicles identified as high security, airport security, police, highway patrol, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF)... Product grouping 6 responders, monitoring sites and terminal personnel"

plurality product group based on the

detection device, a maritime cargo

categories of a multi-sensor

container device, or o locking

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which is specifically targeted at the

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at least one of a central processing

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Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

a receiver for receiving signals, data

or messages from at least one of

plurality of product groups based on

the categories of a multi-sensor

detection device, a maritime cargo

wherein the signals, data or

interest (IOI);

Apple's iPhone 11 & iPhone 12 Series receives signals, data or messages from at least one of plurality product groups.

containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and are affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, messages are of agents of an item of container device or a locking device,

[are] adjacent to Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile communication devices, mobile communication units, portable communication devices, portable communication equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants (PDAs), handhelds Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF), Global Positioning System (GPS) Product grouping 6 (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, face recognition, band geometry, retina scan, iris scan and signature Product grouping 7 (authorized person) include, but are not limited to, owner, pilot, conductor, captain, drivers of vehicles identified as high security, airport security, police, highway patrol, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Intelligence Agency (CIA), the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, first responders, monitoring sites and terminal personnel?	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiffs claim limitation Apple's iPhone 11 & iPhone 12 Series are literally infringing the wireless protocols listed in the claim limitation of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, long and short-range radio frequency (RF) connection, or GPS connection.	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation When you use Apple Pay in stores that accept contactless payments, Apple Pay uses Near Field Communication (NFC) technology between your device and the payment terminal. NFC is an industry-standard, contactless technology that's designed to work only across short distances. Apple Pay is a contactless payment technology for Apple devices. Your debit and credit cards are on your iPhone or Apple Watch, allowing you to pay using your device instead of a card. To accept payments, have customers hold their iPhone, iPad or Apple Watch near the reader until four green lights appear and a chime sound. When you see the check mark on your screen, the transaction is complete.
	at least one satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) connection, cellular connection, broadband connection, or GPS connection;	the monitoring equipment is at least a fixed, portable or mobile monitoring equipment interconnected to a fixed, portable or mobile product, capable of wired or wireless communication therebetween; and

desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants

equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals,

communication devices, mobile communication units, portable communication devices, portable communication

sensor detection device, a maritime cargo container device or a locking (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi,

Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF)... Product grouping 6

(biometrics) include, but are not limited to, fingerprint recognition, voice recognition, face recognition, band geometry,

retina scan, iris scan and signature... Product grouping 7 (authorized person) include, but are not limited to, owner,

pilot, conductor, captain, drivers of vehicles identified as high security, airport security, police, highway patrol,

security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Intelligence Agency (CIA),

the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border security personnel, first

responders, monitoring sites and terminal personnel"

containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile Apple's iPhone 11 & iPhone 12 Series, is capable of the activation or deactivation of at least one of plurality detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, claim limitation product groups. activation or deactivation of at least based on the categories of a multione of plurality product groups equipment, is capable of the whereupon the monitoring

wherein at least one satellite connection, Bluetooth connection, wiff connection, radio frequency (RF) connection, broadband connection, for signal communication with the transmitter and the receiver of the monitoring equipment and transceivers of the

Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's

connection, cellular connection, broadband connection, long and short-range radio frequency (RF) connection, or GPS limitation of a satellite connection, Bluetooth connection, WiFi connection, internet connection, radio frequency (RF) Apple's iPhone 11 & iPhone 12 Series are literally infringing the wireless protocols listed in the claim

frequency (RF) connection, cellular connection, satellite connection, WiFi, and broadband connection (Image below) Monitoring Equipment: Apple Watch Series 5 & 6 and Apple's iPhone 11 & iPhone 12 Series basically have the same "common features of design similarity" to include the ability to operate as a stand-alone detection device, or a detection device that is interconnected through Bluetooth, to the iPhone 11 & iPhone 12 Series. The wireless protocols consist of at least that of a Bluetooth connection, WiFi connection, internet connection, radio



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Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim limitation under the "doctrine of equivalents"

acquisition and digital control; Proceedings of the IEEE Africon '11; Livingstone, Zambia. 13-15 September 2011; pp. "The combination of NFC tags with sensors becomes a new route to realize wireless communication sensed functions, which endows a smartphone with capabilities to rapidly obtain sensing information by simply reading an NFC tag integrated with a sensor" Opperman C.A., Hancke G.P. Using NFC-enabled phones for remote data

> of at least one of a chemical agent, a communication to achieve detection

biological agent, a radiological

agent, a nuclear agent, or an

at least one tag that is read by the

capable of wireless near-field monitoring equipment that is

explosive agent which allows radio

and transferred between the tag and frequency (RF) data to be received

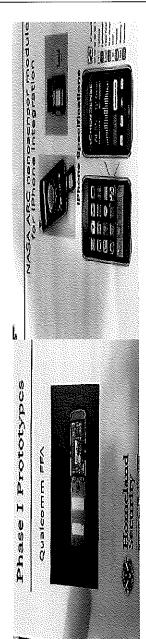
the monitoring.

using your device instead of a card. To accept payments, have customers hold their iPhone, iPad or Apple Watch near technology for Apple devices. Your debit and credit cards are on your iPhone or Apple Watch, allowing you to pay Communication (NFC) technology between your device and the payment terminal. NFC is an industry-standard, contactless technology that's designed to work only across short distances. Apple Pay is a contactless payment the reader until four green lights appear and a chime sound. When you see the check mark on your screen, the When you use Apple Pay in stores that accept contactless payments, Apple Pay uses Near Field transaction is complete.

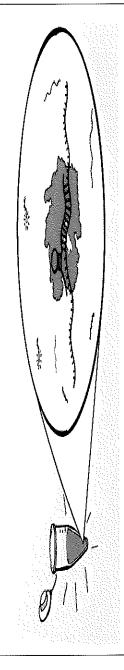
ent Apple iPhone 11 & iPhone 12 Series and Apple Watch Series 5 & 6	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation for Plaintiff's CMDC device(s).	Apple iPhone 11 & iPhone 12 Series are believed to be communicating, monitoring, detecting, and controlling (CMDC) devices of at least one of the new and improved products grouped together by common features in the product groupings category of design similarity (i.e., computer terminal, personal computer (PC), laptop, desktop, notebook, handheld, cell phone, PDA or smart phone); that comprises, are interconnected to, or integrated with, at least a Central Processing Unit (CPU), that is vital for processing instructions; an Operating System (OS); mobile apps developed for the CMDC devices operating system (OS) such as Android, Apple® iOS®, BlackBerry®, or Windows® Mobile; wireless protocol of Cellular, Bluetooth, Wi-Fi, etc., and CBRNE-H sensors that are placed in, on, upon, or adjacent the new and improved CMDC devices; interconnected to the CMDC devices for communication therebetween.	constructions are reproduced "communication device" is construed to mean "monitoring equipment"; and, "built in. embedded" is constructed to mean "monitoring equipment"; and, "built in. gornected to. or mounted to include ""something is included within, incorporated into, disposed within, affixed to. or mounted to another device, such that it is an integral part of the device." Patent Owner argues that "[1]he specific devices removed, such as the cell phones and smart phones would be recognized by one of ordinary skill in the art as a type of communication and are capable of receiving signals." "As Patent Owner explains, the added language is broad enough to include the removed items, and is intended to reflect the entire genus of "monitoring equipment" and "communications devices" that "are capable of communication and capable of receiving signals." Mot. to Amend 4, 5. Thus, the claim has been broadened to not only include the listed species that have been removed, but anything falling within the claimed genus." UNITED STATES DEPARTMENT OF HOMELAND SECURITY, Petitioner, v. LARRY GOLDEN, Patent Owner. Case IPR2014-00714. Entered: October 1, 2015	The Department of Homeland Security's Cell-All project. "Cell-All is a program managed by DHS to develop software and hardware that enables smartphones to function as handheld, pervasive environmental sensors. In the initial research and development phase, engineers miniaturized sensors to detect abnormal levels of potentially dangerous chemicals in the surrounding environment. When dangerous levels are detected, an application on the cell phone should automatically send sensor and location data over the network to a centralized server, which will then contact appropriate agencies and first responders. The eventual goal of the project is to embed multiple nanoscale sensors (for environmental chemicals, industrial toxins, radiation, and bioagents) directly into mobile phones" "During the development of second-generation prototypes, chemical sensors were separated from the phones, allowing for initial market deployment of the sensors through third-party products, such as sleeves, that could be added to existing phones (U.S. Department of Homeland Security, 2011a). This use of third-party accessory products is intended to speed up the technology's commercial availability so that people can begin using the Cell-All applications with their
Patent #: 9,096,189; Independent Claim 4			A built-in, embedded multi sensor detection system for monitoring products with a plurality of sensors detecting at least two agents selected from the group consisting of chemical, biological, radiological, explosive, human, and contraband agents;	

urban surveillance: The development of homeland security markets for environmental sensor networks. Torin Monahan & Jennifer T. Mokos: A Department of Communication Studies, The University of North Carolina at Chapel Hill, CB# current phones before integrated sensors are fully operational and readily available." Retrieved from: Crowdsourcing 3285, 115 Bingham Hall, Chapel Hill, NC 27599-3285, USA; and, a Department of Human & Organizational Development, Vanderbilt University, Peabody #90, 230 Appleton Place, Nashville, TN 37203-5721, USA

smartphone (picture below). Both Synkera and NASA are independently producing sensors—with Synkera developing DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."



When coronavirus RNA is present in the sample, it prompts the CRISPR proteins to snip the molecular probes, causing CMDC Device Camera Sensor for Biological Detection: "In the diagnostic test (below), a patient sample is the whole sample to emit light. This fluorescence can be detected with a cell phone camera." (Image courtesy Science mixed with CRISPR Cas13 proteins (purple) and molecular probes (green) which fluoresce, or light up, when cut. at Cal). The COVID-19 virus is perceived as a biological weapon of mass destruction (BWMD)



Nuclear Radiation Dosimeter "X-Ray" and "Gamma" Detector Smartphone Android iOS with App". Real-time display CMDC Device Geiger Counter for Radiological Detection: Below is a picture of a "Smart Geiger Counter of measurement results. Ultra-low power consumption. World smallest Geiger Counter (30mm). Compatible with Android and iOS.



Wear (Wear OS-operating system from Samsung's Tizen software) or Watch from Apple (i.e., watchOS 7-operating system). By opening the accompanying app on the smartphone and turning on Bluetooth, the user can synchronize the smartphone, the user installs the app that comes with the smartwatch stand-alone detection device, such as Android Smartwatch: To use a smartwatch as a stand-alone detection device, you need a smartphone. On the smartwatch to function as a stand-alone detection device with the smartphone.

Owner's CMDC device (i.e., communication devices, monitoring device; monitoring equipment). The Patent Owner's Central Processing Unit (CPU): The Central Processing Unit (CPU) is the programmable device capable of CPU is capable of arithmetic operations such as add and divide and flow control operations such as conditionals. The general-purpose computation. It is the engine of logic, as with the brain, and the core piece of hardware in the Patent Patent Owner's central processing unit (CPU) is the electronic circuitry within the CMDC device that is vital and essential processes and executes program instructions.

central processing unit (cpu), such as cpu 40, a transceiver and monitoring equipment to include but not to be limited to case 150 includes a recharging cradle or seat 160, a front side 162, a top 164, a bottom 166, and a pair of opposed sides portable electronic communication or telecommunication devices such as a cell phone 187a and/or a laptop computer computers, laptops, notebooks, PC's, and cell phones for the receipt and transmission of signals therebetween... or a system use (ring tone, email, photos, texting) functions 156 as well as a viewing screen 158. The cell phone detector Patent Specifications: "In addition, the basic monitoring terminal or PC 114, as shown in FIGS. 5 and 15, satellite monitoring... a cell tower, wi-fi, wi-max, broadband, GPS, navigation, radio frequency interconnected to a affixed or mounted... The cell phone monitor 152 includes the standard keypad functions 154 and more specialized bomb, explosives or other types of chemical, biological, radiological, or nuclear agents are detected within, upon, can be adapted and incorporated to include desktop PCs, notebook PCs, laptops, cell phones, LCD monitors, and connection 170, a GPS connection 172, and a contact, plug, or port for a power source 174... the integration of 168. At the back of the cell phone detector case 150 are connections, contacts, and ports for at least an Internet 87b with the monitoring equipment 138 located at a predesignated monitoring site 188...

constructions are reproduced... "communication device" is construed to mean "monitoring equipment"; and, "built in. embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to, IPR Final Written Decision. "In the Decision to Institute, we construed certain claim terms. Those connected to, or mounted to another device, such that it is an integral part of the device".

comprising a built-in sensor array or

product that detects agents by means

fixed detection device into the

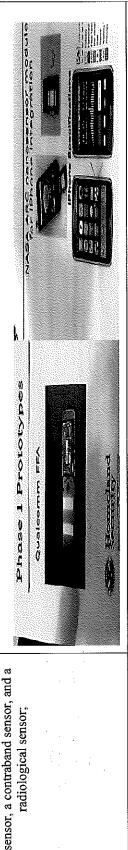
from the following list of sensors: a chemical sensor, a biological sensor,

an explosive sensor, a human

radiological sensor;

of two or more sensors combined

smartphone (picture below). Both Synkera and NASA are independently producing sensors—with Synkera developing a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."



Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

in the art as a type of communication device or monitoring equipment because cell phones and smartphones are devices "[t]he specific devices removed, such as the cell phones and smart phones would be recognized by one of ordinary skill constructions are reproduced... "communication device" is construed to mean "monitoring equipment"; and, "built in. connected to, or mounted to another device, such that it is an integral part of the device". Patent Owner argues that embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to, IPR Final Written Decision. "In the Decision to Institute, we construed certain claim terms. Those that are capable of communication and are capable of receiving signals."

comprising a communication device

of at least one of a cell phone, a

smart phone, a desktop, a handheld,

interconnected to a built-in sensor array or fixed detection device for

communication therebetween;

terminal for monitoring products,

a PDA, a laptop, or a computer

smartphone (picture below). Both Synkera and NASA are independently producing sensors—with Synkera developing a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."

limitation under the "doctrine of equivalents" for Plaintiff's "lock disabling system", that is interconnected to, Plaintiff believes the Defendant and third-party contractor; Apple Inc. is infringing Plaintiff's claim or integrated with, Plaintiff's CMDC device(s).

fingerprint biometric lock with disabler 62 is interconnected to the cpu 40... for receiving transmissions therefrom after fingerprint biometric lock with disabler... FIG. 14 is a representative schematic view of the... lock disabling system of detection... has occurred so that the lock... can be locked or disabled. Moreover, resetting of the fingerprint biometric lock with disabler 62 occurs when the fingerprint of the individual is placed on the fingerprint-matching pad 64, and if lock with disabler 56... a fingerprint that matches stored and authorized fingerprints 102 would indicate an authorized a match occurs with a known fingerprint stored by the cpu 40, then the individual can reset the fingerprint biometric Patent Specifications: "FIG. 1 is a perspective view of the... an automatic/mechanical lock disabler and a individual, and would allow the individual to disable and disarm 104 the lock... The fingerprint biometric lock with the present invention illustrating interconnection of the... fingerprint biometric lock with disabler for engaging and disabler 62 would then be reset 106 after the appropriate safety... and protection measures are completed, and the disengaging the fingerprint biometric lock as part of the process of detection and safeguarding the public... The system 10 would be reset and placed back in the detection mode 108"

Apple services: "This Apple ID has been disabled for security reasons"; "You can't sign in because your account was disabled for security reasons"; "This Apple ID has been locked for security reasons", you need to reset your password to regain access Reset your password: "Use the steps below to reset your password from any trusted iPhone, iPad, iPod touch, or Mac. You account information incorrectly too many times; if your account has been disabled for security reasons; or, if you us/HT201487 Apple's iPhone 11 & iPhone 12 Series Security feature: After multiple failed passcode attempts to open Example: "If your Apple ID is locked or disabled; if you or someone else enters your password or other see one of the following messages, your Apple ID automatically locked to protect your security and you can't sign in to any (access) the new and improved cell phone, the device will lock or disable the lock on the device and erase all of the iCloud on an eligible device or have two-factor authentication enabled for your Apple ID. https://support.apple.com/encan also use a friend or family member's iPhone, iPad, or iPod touch. If that doesn't work, you may not be signed into levice's data.

least one of the cell phone, the smart

communication device that is at

and signature such that the

nand geometry, retina scan, iris scan

voice recognition, face recognition,

wherein the communication device

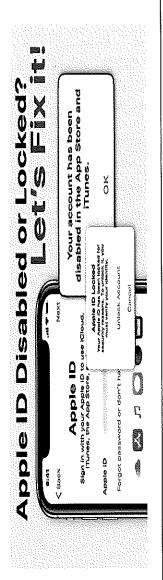
is equipped with a biometric lock

disabler that incorporates at least one of a fingerprint recognition, the PDA, the laptop or the computer

phone, the desktop, the handheld,

terminal is locked by the biometric

lock disabler to prevent unauthorized use;



Apple's iPhone 11 & iPhone 12 Series, receives a signal via any of one or more products listed in any of the plurality of product grouping categories.

constructions are reproduced... "communication device" is construed to mean "monitoring equipment"; and, "built in, embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to, IPR Final Written Decision. "In the Decision to Institute, we construed certain claim terms. Those connected to, or mounted to another device, such that it is an integral part of the device".

containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, face recognition, band geometry, are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Intelligence Agency (CIA), cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo [are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is retina scan, iris scan and signature... Product grouping 7 (authorized person) include, but are not limited to, owner, nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border security personnel, first communication devices, mobile communication units, portable communication devices, portable communication pilot, conductor, captain, drivers of vehicles identified as high security, airport security, police, highway patrol, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF)... Product grouping 6 responders, monitoring sites and terminal personnel"

wherein the built-in embedded multi sensor detection device receives a signal via any of one or more products listed in any of the plurality of product grouping categories; and

Apple's iPhone 11 & iPhone 12 Series, receives a signal via any of one or more products listed in any of the plurality of product grouping categories.

sleeping or who may be inside a movie theatre where the sound alarm(s) of the device is turned off. Examples: Apple's instance, deadly carbon monoxide levels that are displayed on the screen of the devices. The devices are equipped with panic alarm sound (Emergency SOS). When countdown starts, an alarm will sound. Hold down the buttons until the sound alarms for the user who may be away from his/her device(s), and a light alarm to awake a user who may be Alarm: Apple's iPhone 11 & iPhone 12 Series; and, Apple's Smartwatch Series, sensors to detect, for countdown has finished, the iPhone will automatically call the emergency services.

constructions are reproduced... "communication device" is construed to mean "monitoring equipment"; and, "built in, embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to, IPR Final Written Decision. "In the Decision to Institute, we construed certain claim terms. Those connected to, or mounted to another device, such that it is an integral part of the device"

phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, face recognition, band geometry, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Intelligence Agency (CIA), (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, [are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and retina scan, iris scan and signature... Product grouping 7 (authorized person) include, but are not limited to, owner, nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border security personnel, first communication devices, mobile communication units, portable communication devices, portable communication pilot, conductor, captain, drivers of vehicles identified as high security, airport security, police, highway patrol, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF)... Product grouping 6 responders, monitoring sites and terminal personnel"

wherein, when an alarm occurs, the detection system communicates the product-to-handheld, or product-toalarm by way of at least one of the range radio frequency, product-toradio frequency (RF), product-tosimilarity (i.e. product-to-product, cellular, product-to-long or short monitoring site, product-to-WiFi, built-in, embedded multi sensor common features in the product product-to-satellite, product-tophone, product-to-computer at internet, product-to-broadband, product-to-smartphone or cell communication therebetween; products grouped together by groupings category of design laptop or desktop) for

constructions are reproduced... "communication device" is construed to mean "monitoring equipment"; and, "built in. embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to, IPR Final Written Decision. "In the Decision to Institute, we construed certain claim terms. Those connected to, or mounted to another device, such that it is an integral part of the device".

chemical sensors were separated from the phones, allowing for initial market deployment of the sensors through third-2011a). This use of third-party accessory products is intended to speed up the technology's commercial availability so function as handheld, pervasive environmental sensors "During the development of second-generation prototypes, that people can begin using the Cell-All applications with their current phones before integrated sensors are fully Cell-All is a program managed by DHS to develop software and hardware that enables smartphones to party products, such as sleeves, that could be added to existing phones (U.S. Department of Homeland Security, operational and readily available."

smartphone (picture below). Both Synkera and NASA are independently producing sensors—with Synkera developing a stand-alone sensing card and NASA creating a nanosensor-embedded ''sleeve'' for phones (picture below); that will DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."

wherein the built-in embedded multi

common features in at least one of several product groupings of design

similarity.

government at a minimum cost by products grouped together by

sensor detection device is implemented by business or



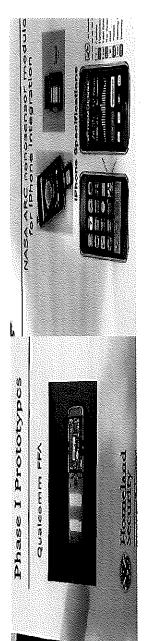
limited to, mobile communication devices, mobile communication units, portable communication devices, portable monitoring terminals, desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, Patent Specifications: Product grouping 4 (monitoring & communication devices) include, but are not communication equipment, wired communication devices, wireless communication devices, monitoring sites, personal digital assistants (PDAs), handhelds...

Patent Specifications: "Still yet a further objective of the present invention is to provide a multi sensor detection and disabling lock system that can be implemented by business or government at a minimum cost by organizing the products to be protected into product grouping categories."

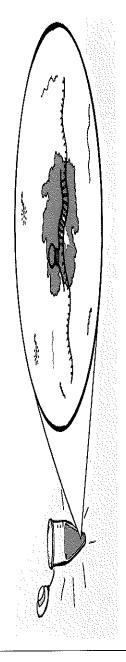
Apple iPhone 11 & iPhone 12 Series and Apple Watch Series 5 & 6	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation for Plaintiff's CMDC device(s).	Apple iPhone 11 & iPhone 12 Series are believed to be communicating, monitoring, detecting, and controlling (CMDC) devices of at least one of the <i>new and improved</i> products grouped together by common features in the product groupings category of design similarity (i.e., computer terminal, personal computer (PC), laptop, desktop, notebook, handheld, cell phone, PDA or smart phone); that comprises, are interconnected to, or integrated with, at least a Central Processing Unit (CPU), that is vital for processing instructions; an Operating System (OS); mobile apps developed for the CMDC devices operating system (OS) such as Android, Apple® iOS®, BlackBerry®, or Windows® Mobile; wireless protocol of Cellular, Bluetooth, Wi-Fi, etc., and CBRNE-H sensors that are placed in, on, upon, or adjacent the <i>new and improved</i> CMDC devices; interconnected to the CMDC devices for communication therebetween.	constructions are reproduced "communication device" is construed to mean "monitoring equipment"; and, "built in. embedded" is constructions are reproduced "communication device" is construed to mean "monitoring equipment"; and, "built in. embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to. connected to, or mounted to another device, such that it is an integral part of the device". Patent Owner argues that "[1]he specific devices removed, such as the cell phones and smart phones would be recognized by one of ordinary skill in the art as a type of communication device or monitoring equipment because cell phones and smartphones are devices that are capable of communication and are capable of receiving signals." "As Patent Owner explains, the added language is broad enough to include the removed items, and is intended to reflect the entire genus of "monitoring equipment" and "communications devices" that "are capable of communication and capable of receiving signals." Mot. to Amend 4, 5. Thus, the claim has been broadened to not only include the listed species that have been removed, but anything falling within the claimed genus." UNITED STATES DEPARTMENT OF HOMELAND SECURITY, Petitioner, v. LARRY GOLDEN, Patent Owner. Case IPR2014-00714. Entered: October 1, 2015	The Department of Homeland Security's Cell-All project. "Cell-All is a program managed by DHS to develop software and hardware that enables smartphones to function as handheld, pervasive environmental sensors. In the initial research and development phase, engineers miniaturized sensors to detect abnormal levels of potentially dangerous chemicals in the surrounding environment. When dangerous levels are detected, an application on the cell phone should automatically send sensor and location data over the network to a centralized server, which will then contact appropriate agencies and first responders. The eventual goal of the project is to embed multiple nanoscale sensors (for environmental chemicals, industrial toxins, radiation, and bioagents) directly into mobile phones" "During the development of second-generation prototypes, chemical sensors were separated from the phones, allowing for initial market deployment of the sensors through third-party products, such as sleeves, that could be added to existing phones (U.S. Department of Homeland Security, 2011a). This use of third-party accessory products is intended to speed up the technology's commercial availability so that people can begin using the Cell-All applications with their
Patent #: 9,096,189; Independent Claim 5			A built-in multi sensor detection system for monitoring products with a plurality of sensors detecting at least two agents selected from the group consisting of chemical, biological, radiological, explosive, human, and contraband agents, comprising:	

urban surveillance: The development of homeland security markets for environmental sensor networks. Torin Monahan & Jennifer T. Mokos: A Department of Communication Studies, The University of North Carolina at Chapel Hill, CB# current phones before integrated sensors are fully operational and readily available." Retrieved from: Crowdsourcing 3285, 115 Bingham Hall, Chapel Hill, NC 27599-3285, USA; and, a Department of Human & Organizational Development, Vanderbilt University, Peabody #90, 230 Appleton Place, Nashville, TN 37203-5721, USA

smartphone (picture below). Both Synkera and NASA are independently producing sensors—with Synkera developing DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."



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Nuclear Radiation Dosimeter "X-Ray" and "Gamma" Detector Smartphone Android iOS with App". Real-time display CMDC Device Geiger Counter for Radiological Detection: Below is a picture of a "Smart Geiger Counter of measurement results. Ultra-low power consumption. World smallest Geiger Counter (30mm). Compatible with Android and iOS.



Wear (Wear OS—operating system from Samsung's Tizen software) or Watch from Apple (i.e., watchOS 7—operating system). By opening the accompanying app on the smartphone and turning on Bluetooth, the user can synchronize the smartphone, the user installs the app that comes with the smartwatch stand-alone detection device, such as Android Smartwatch: To use a smartwatch as a stand-alone detection device, you need a smartphone. On the smartwatch to function as a stand-alone detection device with the smartphone.

Owner's CMDC device (i.e., communication devices, monitoring device; monitoring equipment). The Patent Owner's Central Processing Unit (CPU): The Central Processing Unit (CPU) is the programmable device capable of CPU is capable of arithmetic operations such as add and divide and flow control operations such as conditionals. The general-purpose computation. It is the engine of logic, as with the brain, and the core piece of hardware in the Patent Patent Owner's central processing unit (CPU) is the electronic circuitry within the CMDC device that is vital and essential processes and executes program instructions.

central processing unit (cpu), such as cpu 40, a transceiver and monitoring equipment to include but not to be limited to case 150 includes a recharging cradle or seat 160, a front side 162, a top 164, a bottom 166, and a pair of opposed sides portable electronic communication or telecommunication devices such as a cell phone 187a and/or a laptop computer computers, laptops, notebooks, PC's, and cell phones for the receipt and transmission of signals therebetween... or a system use (ring tone, email, photos, texting) functions 156 as well as a viewing screen 158. The cell phone detector satellite monitoring... a cell tower, wi-fi, wi-max, broadband, GPS, navigation, radio frequency interconnected to a Patent Specifications: "In addition, the basic monitoring terminal or PC 114, as shown in FIGS. 5 and 15, affixed or mounted... The cell phone monitor 152 includes the standard keypad functions 154 and more specialized bomb, explosives or other types of chemical, biological, radiological, or nuclear agents are detected within, upon, can be adapted and incorporated to include desktop PCs, notebook PCs, laptops, cell phones, LCD monitors, and connection 170, a GPS connection 172, and a contact, plug, or port for a power source 174... the integration of 168. At the back of the cell phone detector case 150 are connections, contacts, and ports for at least an Internet 87b with the monitoring equipment 138 located at a predesignated monitoring site 188..."

smartphone (picture below). Both Synkera and NASA are independently producing sensors—with Synkera developing DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will detect chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones (Li, 2011; Synkera Technologies, 2011)."

> that detects agents by means of two or more sensors combined from the

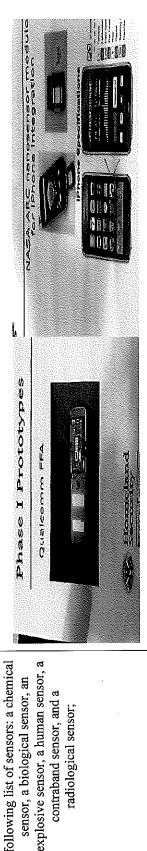
explosive sensor, a human sensor,

contraband sensor, and a radiological sensor;

sensor, a biological sensor, an

detection device into the product

a built-in sensor array or fixed



Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

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monitoring equipment of at least one

of the products grouped together by

common features in the product

similarity (i.e., computer terminal,

groupings category of design

personal computer (PC), laptop,

DHS Cell-All Chemical Sensors: Qualcomm first introduced a "built-in, embedded" chemical sensor for the chemicals in the immediate environment and communicate those readings via Bluetooth, or other protocols, to phones smartphone. Both Synkera and NASA are independently producing sensors—with Synkera developing a stand-alone sensing card and NASA creating a nanosensor-embedded "sleeve" for phones (picture below); that will detect (Li, 2011; Synkera Technologies, 2011)."

phone, PDA or smart phone) for the

desktop, notebook, handheld, cell

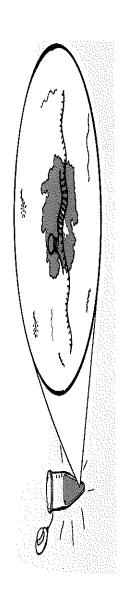
receipt and transmission of signals

therebetween;

satellite monitoring... computers, laptops, notebooks, PC's, and cell phones for the receipt and transmission of signals Patent Specifications: "In addition, the basic monitoring terminal or PC 114, as shown in FIGS. 5 and 15, can be adapted and incorporated to include desktop PCs, notebook PCs, laptops, cell phones, LCD monitors, and

wherein the built-in multi sensor detection device is built in any of one or more products listed in any of the plurality of product grouping categories to include but not limited to a maritime cargo container, a lock, or monitoring equipment (i.e., a computer terminal, personal computer (PC), a cell phone, a smart	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation Apple's iPhone 11 & iPhone 12 Series, is built in any of one or more products listed in any of the plurality of product grouping categories. IPR Final Written Decision. "In the Decision to Institute, we construed certain claim terms. Those constructions are reproduced… "communication device" is construed to mean "monitoring equipment"; and, "built in, embedded" is construed to include ""something is included within, incorporated into, disposed within, affixed to, connected to, or mounted to another device, such that it is an integral part of the device" Patent Specifications: Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell phone cases, detector cases of tags, detector cases that is [are] mounted to, detector
phone, a desktop, a handheld, a PDA, a laptop);	cases that is [are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is [are] adjacent to Patent Specifications: "In addition, the basic monitoring terminal or PC 114, as shown in FIGS. 5 and 15, can be adapted and incorporated to include desktop PCs, notebook PCs, laptops, cell phones, LCD monitors, and satellite monitoring computers, laptops, notebooks, PC's, and cell phones for the receipt and transmission of signals
wherein the built-in multi sensor	Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation Apple's iPhone 11 & iPhone 12 Series, is built in any of one or more products listed in any of the plurality of
detection device is implemented by business or government at a minimum cost by products grouped together by common features in at least one of several product groupings of design similarity;	IPR Final Written Decision. "In the Decision to Institute, we construed certain claim terms. Those constructions are reproduced "communication device" is construed to mean "monitoring equipment"; and, "built in, embedded" is construed to include "something is included within, incorporated into, disposed within, affixed to, connected to, or mounted to another device, such that it is an integral part of the device".
	Patent Specifications: "Still yet a further objective of the present invention is to provide a multi sensor detection and disabling lock system that can be implemented by business or government at a minimum cost by organizing the products to be protected into product grouping categories."

When coronavirus RNA is present in the sample, it prompts the CRISPR proteins to snip the molecular probes, causing CMDC Device Camera Sensor for Biological Detection: "In the diagnostic test (below), a patient sample is the whole sample to emit light. This fluorescence can be detected with a cell phone camera." (Image courtesy Science mixed with CRISPR Cas13 proteins (purple) and molecular probes (green) which fluoresce, or light up, when cut. at Cal). The COVID-19 virus is perceived as a biological weapon of mass destruction (BWMD).



Integrating Biochemiluminescence Detection on Smartphones

Cr aiduai (Brn)

3,0×10

4.5×10*

6.0×10

a light alarm indicator that has a plurality of colored lights that correspond to specific ones of the at least two agents;

- 60

88

8

8

8

3

1.5×10

Cholesterol (mg/dL)

Apple's iPhone 11 & iPhone 12 Series, receives a signal via any of one or more products listed in any of the plurality of product grouping categories.

sleeping or who may be inside a movie theatre where the sound alarm(s) of the device is turned off. Examples: Apple's instance, deadly carbon monoxide levels that are displayed on the screen of the devices. The devices are equipped with panic alarm sound (Emergency SOS). When countdown starts, an alarm will sound. Hold down the buttons until the sound alarms for the user who may be away from his/her device(s), and a light alarm to awake a user who may be Alarm: Apple's iPhone 11 & iPhone 12 Series; and, Apple's Smartwatch Series, sensors to detect, for countdown has finished, the iPhone will automatically call the emergency services.

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phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is containers, shipping containers, tractor trailers, mail carriers, mail boxes, airplanes, subways, cargo planes, freight train desktop personal computers (PCs), notebook personal computers (PCs), laptops, cell phones, personal digital assistants (biometrics) include, but are not limited to, fingerprint recognition, voice recognition, face recognition, band geometry, [are] adjacent to... Product grouping 4 (monitoring & communication devices) include, but are not limited to, mobile (PDAs), handhelds... Product grouping 5 (communication methods) include, but are not limited to, Bluetooth, Wi-Fi, security guard, military personnel, hazardous material (HAZMAT) personnel, the Central Intelligence Agency (CIA), detection of humans... Product grouping 3 (detector case; modified and adapted) include, but are not limited to, cell [are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector cases that is Patent Specifications: Product grouping 1 (storage & transportation) include, but are not limited to, cargo cars...Product grouping 2 (sensors) include, but are not limited to, chemical, biological, radiological, explosive and equipment, wired communication devices, wireless communication devices, monitoring sites, monitoring terminals, retina scan, iris scan and signature... Product grouping 7 (authorized person) include, but are not limited to, owner, nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, disabling locking systems, the Federal Bureau of Investigation (FBI), Secret Service, port security personnel, border security personnel, first communication devices, mobile communication units, portable communication devices, portable communication pilot, conductor, captain, drivers of vehicles identified as high security, airport security, police, highway patrol, Internet, Wireless, Wired, Text Messaging, Cellular, Satellite, Radio Frequency (RF)... Product grouping 6 responders, monitoring sites and terminal personnel"

transmission of signals therebetween cellular, product-to-radio frequency detection system communicates the smartphone or cell phone, productindicator lights to indicate an alarm (RF), product-to-internet, productalarm by way of at least one of the similarity (i.e. product-to-product, handheld, or product-to-laptop or occurs, the built-in multi sensor common features in the product product-to-satellite, product-toto-computer at monitoring site, wherein, when the light alarm products grouped together by groupings category of design product-to-WiFi, product-todesktop) for the receipt and to-broadband, product-to-

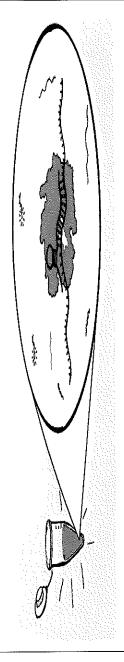
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Patent #: 9,096,189; Independent Claim 6			A built-in multi sensor detection system for detecting at least two items selected from the group consisting of chemical agent, biological agent, radiological agent, explosive agent, human agent, contraband agent, motion, perimeter, temperature, tampering, theft, and breach, comprising:	

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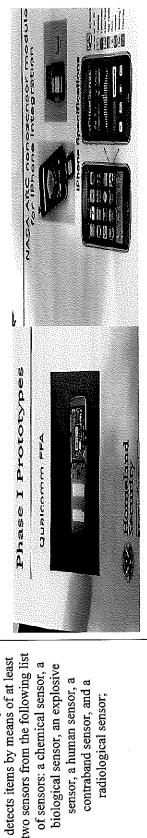
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detection device into a product that

sensor, a human sensor, a contraband sensor, and a radiological sensor;

a built-in sensor array or fixed



radiological, explosive and nuclear detectors, motion sensors, biometric sensors, high security locks, door sensors, Patent Specifications: Product grouping 2 (sensors) include, but are not limited to, chemical, biological, disabling locking systems, detection of humans Plaintiff believes the Defendant and third-party contractor; Apple Inc. is literally infringing Plaintiff's claim limitation

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satellite monitoring... computers, laptops, notebooks, PC's, and cell phones for the receipt and transmission of signals Patent Specifications: "In addition, the basic monitoring terminal or PC 114, as shown in FIGS. 5 and 15, can be adapted and incorporated to include desktop PCs, notebook PCs, laptops, cell phones, LCD monitors, and

monitoring equipment of at least one phone, PDA or smart phone) for the of the products grouped together by receipt and transmission of signals similarity (i.e. computer terminal, desktop, notebook, handheld, cell common features in the product personal computer (PC), laptop, groupings category of design therebetween;

is literally infringing Plaintiff's	
Apple Inc.	
contractor;	
hird-party	
ndant and t	
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intiff believ	tion
Plai	claim limita

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Patent Specifications: Product grouping 3 (detector case; modified and adapted) include, but are not limited cases that is [are] affixed to, detector cases that is [are] outside of, detector cases that is [are] inside of, and detector to, cell phone cases, detector cases of locks, detector cases of tags, detector cases that is [are] mounted to, detector cases that is [are] adjacent to...

computer (PC), a cell phone, a smart

phone, a desktop, a handheld, a

PDA, a laptop);

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wherein, when an alarm occurs, the

built-in multi sensor detection

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category of design similarity (i.e.

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therebetween;

or cell phone, product-to-computer

at monitoring site, product-to-WiFi

broadband, product-to-smartphone

product-to-radio frequency (RF),

satellite, product-to-cellular,

product-to-internet, product-to-

product-to-handheld, or product-to-

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